IMERCIAL GAZETTE,

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

No. 506 .--- VOL. XV.]

LONDON: SATURDAY, MAY 3, 1845.

PRICE 6D.

WO VALUABLE STEAM-ENGINES FOR SALE, at WHEAL KITTY, in the parish of St. Agnes, Cornwall.—TO BE SOLD, BY AUGTION, by Mr. Penberthy, at Wheal Kitty, in the parish of St. Agnes, on Wednesday, the 14th May next, by Twolee o'clock at moon, a 4thm. STAAM FUMPING-ENGINE, with brase condensing work, 6-ft. stroke, equal beam, boiler eight tons, with steam-pipes, est, complete; a 16-inch STEAM WHIM-ENGINE, four feet stroke, with fly-wheel, blant, and crank—whim and shart to fit. Also a spare FLY-WHEEL, to said the above: For view, and particulars, apply at the mines. A punctual attendance is requested as they will be sold without reserve.—Helston, April 35, 1845.

t; on the premises; and at the omese of the actionness, tea, samples, which is the premises of the property of

Wandsworth, in the county of Surrey, and about seven miles from London.

LESSRS, DRIVER have received instructions to OFFER to PURLIC COMPETITION, at the Mart, on Tuesday, the 27th of May, at Twelve clock, the above most valuable and desirable FREEHOLD FREMISES, exonorated from not tax, which are now, and have for nearly a century and a halt, been worked by the overnor and Company of Copper Miners in England. The premises comprise a convecent small dwelling-house for a manager, with a most excellent garden; a building, bout 59 feet by 76 feet, called the Rolling Mill, and a very capital from water wheel, feet diameter by 14 feet in width; a hammer mill, about 70 feet long, with two other ster-wheels, one 16 feet and the other 12 feet diameter; a new building called the Resery and Foundry, about 86 feet by 42 feet, with three furnaces, stabling, sundry work-post, and a counting-house; an Artesian Well, 155 feet deep, with 5-inch coppor piposa etter workmen's cottages, and sundry paracles of most desirable and valuable meador, and, comtaining allogether about twenty acrea.

COAL AND IRONSTONE MINES.—TO BE SOLD, BY

ALUABLE LEAD MINE FOR SALE.—TO BE SOLD, either the WHOLE or PART of that most promising LEAD WORKS, called AIG-Y-MVN, near Lianrhaiadr, in the county of Deinbigh, consisting of an extensive ct of RICH MINERAL GROUND, and in the immediate neighbourhood of the old celead-works, called Liangyrops. Several tons of lead are now lying on the surface, it most advantageous for the bringing in of a deep level to use the works. Satisfactors and the surface,

TALUABLE IRON MINES FOR SALE, in the UNITED STATES OF AMERICA, the MURILENBURG, or GREEN RIVER, IRON-

N EXTENSIVE QUARRY OF IRONSTONE ON SALE in NORTH WALES, situated near the sea, and connected with the adjoining plang place by a railway of about two miles in length, constructed by the present protons of the quarry. The ironstone is of an excellent quality, and has been used in eat of the South Waser From Works. The ground is hold upon a long lease, at a low lity, and is comprised of two farms, or about eightly herd upon a long lease, at a low

ORNWALL.-VALUABLE FREEHOLD ESTATE, in fining District of LISKEARD, with the DUES of a promising C RIGHTS of COMMON, TIMBER, &c., FOR SALE.—TO BE ONTRACT, the FEE-SIMPLE of an excellent ESTATE, attracts

nourth part thereof, as may be agreed on. A more desire cannot be offered. For all further particulars, and to treat for the purchas Richard Sargent, Eq., solicitor, 10, Norfolk street, Strand Lag., solicitor, Liskeard.—This will be advertised but once.

THE PATENT GALVANISED IRON COMPANY beg leave announce to the public, that they are prepared to SUPPLY ROOFING, SHIP SHEATHING and FASTENINGS CHAIMS, and the endiess variety of articles to which iron, not subject to rust, may be applied.—Testimontals may be seen by application at the office, 3, Massice litous-place, London.

office, 3. Massion House-place, London.

CAUTION.—THE PATENT GALVANISED IRON COM-PANY having ascertained that certain PARTIES are INFRINGING THEIR PATENT by the MANUFACTURE and SALE of a SPURIOUS and COUNTERFEIT ARTICLE, to the injury of the company and the detriment of the public, hereby give NOTICE, that this COMPANY have the SOLE PRIVILEGE of manufacturing and setting. IRON COATED WITH ZING, commonly called "Galvanised Iron," and that they will inflice the utmost PENALTIES of the law upon all PERSONS MANUFACTURING or SELLING the same without their authority, as well as upon all persons buying or issing any Galvanised Iron set manufactured by them, or sold by their satissarity."

3. Mansion House-piace, London, Jan. 28, 1846.

PONTYPOOL, Monmouthshire.—TO BE LET, an important and valuable TRACT OF MINERAL PROPERTY, known as the GRAIG DDU ESTATE, and situated in the immediate vicinity of the extensive iron-works of Pentsyn and Abersychan. This property comprises the whole of the seams, both of COAL and HRON ORE, amployed in the manufacture of ron, in the South Wales district, and would form.

MINERAL FIELD IN THE CADDER ESTATE, NEAR GLASGOW—TO LET, for once a number of years as may be agreed on, and entered to at Martinman eart, the BLACKBAND IRONSTONE, COAL, and LIME-TONE, in the ARMS of JELLYHILL, BEARYARDS CROSSHILL, CADDER-MILL, and part of HILT ON—bounded on the form; by4the Forth and Clyde Canad, and the Mineral Field, let to the Cauron Company, on the west by the Keimure Mineral Field, let to the Summerica Iron Company, and intersected on the south by the Edinburgh and Glasgow Ralleys,

MANGANESE.—A MANGANESE MINE TO BE LET,
ON LEASE, most conveniently affaste in a neighbourhood where a considerable
untilty of the unineral is used, and about five infles from a scaport town; the quality of
he ore is good, and come be raised in large quantities at small expense. The TOOLS, &c.,

MPERIAL BRAZILIAN MINING ASSOCIATION, GEORGE THOMAS, Sect

T. JOHN DEL REY MINING COMPANY.—

FIFTEENTH ANNUAL GENERAL MEETING of the proprietors of the St. J.

del Rey Mining Company will be HELD at the company's office, No. 8, Tokenhouse-yLothbury, on Friday, the 50th mst., at Two o'clock precisely. At this meeting two

STEAM-ENGINES, from 8 to 16-horse power, ALWAYS in

you, they have been given from a thorough conviction of the great usefulness of the Safety Fuse; and I am quite willing that you should employ my name as evidence of this."

—Mannfactured and sold by the Patentoes, BICKFORD, SMITH, and DAVEY, burborne, Cernwall.

TO ENGINEERS, RAILWAY CONTRACTORS, MINING AGENTS, IRONMASTES, AND OTHERS REQUIRING FINE GREASS for MACHINERY and AXLES of every description.—JOSEPH PERCIVAL'S IMPROVED ANTI-FRICTION GREASE 1s—after trials so machinery and axles of every kind where constant friction is kept up—admitted to be the most useful, economical, and best paration of the kind ever offered to the public.

References to scientific and practical men can be given, and testimonials shown of its great excellence.—Samples forwarded on application at the manufactory, Green-street, Wellington-street, Blackfrars-road, London.

OFFICE FOR PATENTS, 7, STAPLE INN, HOLBORN, J. MIRDOCH (successor and late assistant to Mr. Hebert) informs INVENTORS and PATENTESS, that at his OFFICE they can obtain.

REFERENCE TO A CLASSIFIED LIST OF PATENTS,
THE ONLY ONE EXTAFT), which shows at one view all the Patennis ever granted for any particular chiect, whereby they may save much trouble and expense, and procure in hormation not otherwise obtainatic. BRITTSH and FORMIGN PATENTS OBTAINED, and USEFUL and ORNAMENTAL DESIGNS REGISTERED.

SPECIFICATIONS, carefully prepared, and REPORTS of ENDOLLED SPECIFICATIONS furnished on moderate terms.

FINISHED and WORKING DRAWINGS executed with accuracy and despatch.

RYE AND THOMAS, MINE AGENTS AND DEALERS IN STOCKS, RAILWAY AND OTHER SHARES, 80, OLD BROAD-STREET, LONDON, 24.

INING OFFICES, St. MICHAEL'S-ALLEY, CORNHILL,
LONDON.—MESSES. WATSON and CUELL have received instructions to
CHASE SHARES in East Wheal Rose, Wheal Trelawney, Tresayeas, North Rose,
it Roskear, East Wheal Crofty, and Baristown Mines; and to SELL SHARES in
Basset, West Basset, South Caradon, West Caradon, Wheal Henry, West Mariallack, Wheal Fortesche, and the Caradon Milies.—May 3.

MINING RECORD OFFICE, 5, SHORTER'S-COURT,
THEOGMORTON-STREET.—The business of this office not being confined to the
purchase or saic of shares in mines, railways, and other undertakings, but open to negocistions as relates to mineral property, as also the appointment of practical agents to inspect and report thereon, Mr. HENRY ENGLISH will be happy to communicate personally, or otherwise, with parties who may wish to dispose of any interral tracts, or destrough of investing capital.—Office hours Ten till live.

6, Shorter's court, City, April 26, 1845. mvesting capital. + Office hours rter's court, City, April 26, 1845.

MR. W. FORDYCE, SHAREBROKER, 15, GREY-STREET, NEWCASTLE-ON-TYNE.

T. a. M.E. ETING of the COAL and IRONMASTERS of

Strategies (1994) R. Jane S. Bretter St. Sept. Strategies (1997) 1997 1997 1997 1997 1997 1997 199	TOTALISOT WITH CONTROL OF THE PERSON AND THE PERSON
PHILIP WILLIAM	MS, Esq., in the chair.
Thomas Badger, Esq.	Mr. John Walker
Mr. Thomas Davies	Mr. Thomas Morria
Mr. William Ward 1119201 . 91111-1711	Mr. Henry Smith
He Mr. Sparrow w Mallingo businer	Mr. Underhill
Mr. Thomas Bagnallianamal lo slo	Take CIMP R. Bradley Be dist Delived
Mr. Henry Williams is begure a vid .	Mr. John Williams , or signor
Mr. G. Thorneycroft	Toba w Mr. Charles Birch me pooned
Mr. George Downing	Mr. William Baldwin
Mr. Edwin Pemberton	Mr. George Hickman
Mr. George Skey Labour (280 Dila	Mr. O. Griffin
Mr. J. H. Blackwell nesking elderfeld	Mr. Sparrow, Jun.
Mr. William Barrowa nomisery of	hittoric Mr. John Pew lashin and The
Mr. William Howells allabourge one	Mr. G. R. Hickman 1 of mold
Mr. Walter Williams	Mr. Thomas Page

THE ELECTRIC TELEGRAPH.—COOKE AND WHEATSTONE PATENTEES.

The ELECTRIC TELEGRAPH has been adopted on the following LINES:—

TO OVERNMENT TELEGRAPH from the ADMIRALTY, on the South-Western Rallway, ON INNETY MILES.

TO OVERNMENT TELEGRAPH from the ADMIRALTY, Whitehall, to POETSMOUTH, WE NINETY MILES.

USPENSION BRIDGES.—ANDREW SMITH'S PATENT GALVANISED WIRE ROPE and CHAIN SUSPENSION, or PARABOLIC TENSION, BRIDGES, are so constructed that the lateral oscillation and vibration (so destructive on the ordinary suspension principle) are entirely prevented by this improvement For deep ravines or cuttings, the Parabolic Tension Bridge costs much less than those on the association principle—Diars, &c., being entirely distensed with

MIR W. BURNETT'S PATENT-THE CHEAPEST HYDRAULIC APPARATUS AND TANKS,

POPLAR, nearly opposite Greenwich.

Numerous SPECIMENS and TESTIMONIALS may be seen, and every in tained, at the office, 53, King William street, London-bridge. PATENT GALVANISED IRON COMPANY.—CAUTION
—This PATENT was decided by the Jury, in the case of Patteson v. Holland, trice
in the Court of Common Piese, at Westminster, on the 12th, 12th, and 14th of Februariast, to be INVALID.

MOREWOOD and ROGER'S PATENT METAL.—This

where a strong, light, cheap, and durable material is required.

It has been found by experience, that this article is beyond all comparison superior to all the property of the comparison of t

PATENT IMPROVEMENTS BY CHRONOLETERS.

WATCHES, AND CLOCKS...E. J. DENT. 88. 45 pand, and 33. Conkspure-streets watch and clock maker, By APPOINTMENT, to see user and the Rock between the Prince Albert, began to sequain; the public, that the manufacture of the crime watches, and concern, is secured by three separate patient, separatively granters in US6, 1840, 1843. Silver lever wasches, provided in four hands are seen, in 1860 and 1843. Silver lever wasches, provided in four hands are seen, in 1860 and 1843. Silver lever wasches, provided in four hands are seen, in 1860 and 1843. Silver lever wasches, provided in four hands are seen, in 1860 and 1843. Silver lever wasches, browled in four hands are seen to 1850. Except the control of the control

RECENT AMERICAN PATENTS.

Infraoved Process of Converting Inon to Street. S. Broadmeadow, New York.—The patentee says.—"My improvement consists in the using of a permanent roof of fire stone, or fire brick, in place of the temporary covering heretofore employed. I also use a sliding abutter, which is placed in front of the farnace, so that it may be brought down as required. My improvement in the manufacturing of the steel, after the process of cementation has been completed, consists in the taking of the bars first from the upper part of the convertory, whilst they are at the highest temperature to which they are to be brought, and subjecting them immediately to the action of tilting, or of rolling, without the necessity of reheating. To do this, a part of the upper layer of bricks, which inclose the converting oven, is first removed, so as to enable one to draw out the upper bars, and as the bars are successively operated upon, the bricks are further removed, until the whole centents of the convertory have been tilted, or rolled. As this process goes on, the sliding shuter is brought down, so as to inclose the part from which the bricks have been removed. By this procedure several advantages are attained in the process of manufacturing steel. Under that hitherto followed, the whole charge has been allowed to cool down before removing the steel from the convertory, and this necessarily resulted in great loss of time; the bars, after being removed, had to be reheated, in order to their being tilted, or rolled: by this reheating time was consumed, and the steel actually injured, it being a well-established fact, that every time steel is highly heated it is deteriorated. Claim.—What I claim as new, is the improvement herein described, of taking the steel from the oven in its heated state, and subjecting it to the action of rollers, or of the tilt hammer, without the necessity of reheating the bars, by which improvement and manufacture is greatly facilitated, and the quality of the steel much improves for obtaining IMPROVED PROCESS OF CONVERTING IRON TO STEEL. S. Broadm

Mr. Broadmeadow has also obtained a patent for a process for obtaining MALLEABLE IRON DIRECTLY FROM THE ORE, by treating the same in a puddling-furnace, of which the following is the claim :—"What I claim as new, is the effecting of such reduction (the reduction of the ore into malleable iron) by mixing, in due proportion, the ores known as oxides, and as carburets of iron (without the necessary admixture of fluxes, or carbonaccous matter), and exposing them to a proper temperature, for fusing the same, in a furnace, so constructed that the flame shall not reverberate upon the mass, but shall pass over it in contact, or nearly in contact, therewith."

[To be con nued in next week's Mining Journal.]

USTRIAN AND SARDINIAN RAILWAY COMPANY Original line), FROM MILAN 'IU GENOA.—Registered Provisionally, access to of Parliament.—The provisional committee regret, that in consequence of the APPLICATIONS FOR SHARES in this company, and the limited number soonal, it has been quite impossible for them to comply with the requests of a vermeer of applicants, of the highest respectability, the total number of shares applie gexceeded 250,000. By order, CHAS, GURNEY, Sec. pre tensor Original Conference of the Conference of

ONDON, OXFORD, CHELTENHAM, GLOUCESTER,

ONDON, OXFORD, CHELTENHAM, GLOUCESTER,
TEWKESBURY, AND HEREFORD RAILWAY—OIDRECT LINE.)
Provisionally Registered under 7 & 8 Vic. cap. 116.
Capital, &Z,500,600. Shares, &Z seach. Deposit, & 1 7 x. 6d. per share.
No shareholder to be lishle beyond the amount of his subscription.
PROVISIONAL COMMITTER.
(With power to add to their number.)
The Right Honourable the Earl of Orkney, Taplow Court, Bucks
Captain the Honourable William Edward Fitzmaurice, M.P. for Buckinghamshire
Captain the Honourable S. T. Carnegie, R.N. M.P.
Captain the Honourable G. F. Hotham, R.N. Chairman of the Brighton and Chichester Railway

ptain the Honourable G. F. Hotham, R.N. Chairman of the Brighton and Chi-chester Railway

Henry Lambert, Bart. Aston Rowant, Oxon

Edwin Pearson, F.R.S. Gionecater-terrace, Regent's-park, London
bert John Bagahaw, Esq. York-place, Portman-square, London
omas Edward Bigge, Esq. Bryanstons-quare, London; Director of the Warwick
and Cheltenham Junction Railway
and Engittman, Esq. Regency-square, Brighton; Director of the Newport, Abergreenny, and Hereford Railways
an Charchill, Esq. Bayswater, London; Director of the Trent Valley Continuation Railway

and Cheltenham Junction Railway
ha Brightman, Eq. Regency-aguare, Brighton; Director of the Newport, Abergavenny, and Hereford Railways
ha Churchill, Esq. Bayswater, London; Director of the Trent Valley Continuation Railway
idedon George Dupre, Esq. M.P. for Backinghamshire
iomas Raimonds, Esq. High Wycombe, Bucks
shert Fisher, Esq. Highbury-park, London; Director of the Trent Valley Contiaustion Railway
sary Plamptre Gipps, Esq. Montagu-place, Bryanston-square, London; Director
of the Warwick and Cheltenham Junction Railway
sars Plamptre Gipps, Esq. Montagu-place, Bryanston-square, London; Director
of the Warwick and Cheltenham Junction Railway
smes Grace, Esq. Wardrobes, Princes Risborough, Bucks
athaniel Hartland, Esq. The Oatlands, Gloucestershire
ichard Heaviside, Esq. Brighton; Director of the Cork and Waterford Railway
sars Bradshaw Henshaw, Esq. Lower Seym ur street, Portman-square, London
han Nembhart Hibbert, Esq. Chalfont-house, Chalfont-St. Peter's, Bucks
r, James Hobbs, Laue-cnad, Grast Marlow, Bucks
ichard Hartley Kennedy, Esq. Emsecote-house, Leamington; Chairman of the
Warwick and Cheltenham Junction Railway
ha Lucena Kettle, Esq. Lincoln's Inn, London; Pellow of Lincoln College, Oxford
ichard Lucas, Esq. High Wycombe, Bucks
onald Maclenan, Esq. Abehurch-lane, London
rederick Mangles, Esq. New Broad street, London
han Martin, Esq., M.P. for Tewkesbury
homas Mills, Esq. Tolmers, Herts; Deputy-Chairman of the Northern and Eastern
Railway
han Leg., High Wycombe, Bucks
hand Sales, Esq. Tolmers, Herts; Deputy-Chairman of the Northern and Eastern
Railway

Agrica and Martin, Esq., M.F. and Martin, Esq., M.F. and Martin, Esq., M.F. and Martin, Esq., M.F. and Chellenham Junction Railway mas Freeman Gage Spicer, Esq. Woodurn, Backs sorge Ledwell Taylor, Esq. Hyde-park.square, London ajor General H. G. A. Taylor, Clarendon-square, Hyde-park-gardens, London ajor General H. G. A. Taylor, Clarendon-square, Hyde-park-gardens, London alor General H. G. A. Taylor, Clarendon-square, Hyde-park-gardens, London agrees Vensbles, Esq. High Wycombe, Bucks alilp Wroughton, Esq. Ibstone-house, Stokenchurch, Oxon be Reversed Henry Traffaell Young, Stokenchurch, Oxon DIRECTORS.

DIRECTORS.

John N. Hibbert, Esq.
Hoo, Captain Hotham

Tartley Kennedy, Esq.

Thos. E. Bigge, Esq.
John Brightman, Esq.
Hon. Captain Carnegie, M.P.
Caledon George Dupre, Esq. M.P.
Hon. Captain Fitzmaurice, M.P.
Henry P. Gipps, Esq.
Richard Heaviside, Esq.
Frazer B. Hensbaw, Esq.
SANNAN—Mesars. Martin, John N. Hibbert, Esq. Hop. Captain Hotham R. Hartley Kennedy, Esq. John L. Kettle, Esq. Frederick Mangles, Esq. Sir Edwin Pearson George L. Taylor, Esq.

EFET B. Henshaw, Eq.

BANKHES—Messrs. Martin, Stones, and Martins, London.

ERGINERS.IN-CHIEF—Robert Stephenson, Eq.

SOLICITORS—Messrs. Bridges and Mason, Red. Ion-square, London.

LOCAL AGENTS.

Messrs. Riches and Woodbridge, solicitors, Uxbridge
Messrs. Charsiey and Parton, solicitors, Deaconsfeld
Messrs. Hester and Fiszel, solicitors, Oxford
Messrs. Richards and Thomas, solicitors, Tewkesbury,

SECRETARY—Charles T. Beke, Eq.

PROSPECTUS.

line is intended to open a direct communication between the Messrs.

This line is intended to open a direct communication between the Metropolis and the West of England and South Wales, and to afford railway accommodation to an important and opinient tract of country, at present wholly unprovided therewith. It is proposed that this line shall commence at a point of junction with the London and Birmingham Railways at or about seven miles from the Rus ton-aquare station, and, following the country of the Burner Valley Greenford, shall proceed by or near Hayes, Uxbridge, Beaconsfeld, High Wycombe, and Thame, to Oxford there to form a junction with the Ragby and South Busfordshire these, and other proposed lines north of Oxford. From Oxford it will continue by Winney, Burford, and Moralstecht, to Cheltenham, uniting there with the Cheltenham, it is proposed to adopt the Birmingham and Gioucester Railway, as far as the Achehurch station, and from thence to proceed by Tewkesbury and Ledbury to Herreford, where it will join the projected Weish Middiand and Newport, Abergavenay, and Hereford Railways, a little beyond Tewkesbury, as short branch will be carried to Great Malvern. The satire distance from London to Hereford will be about 136 miles; that between London and Cheltenham being about 93 miles. Thus this line will effect an actual saving of nearly 39 miles, on the through journey, from London to Cheltenham, and, as a necessary conseguence, on the communication between the metropolis and all places beyond Cheltenham in the South Wales districts, besides being the most direct route to the south of Irevand. Between London and Coxford, the saving in distance will be upwards of 10 miles; whist between Nordor and Cheltenham in the South Wales districts, besides being the most direct route to the Railway Bepartment of the Board of Trade on the schemes. By the Report of the Railway Department of the Board of Trade on the schemes

By the Report of the Railway Department of the Board of Trade on the schemes for extending railway communication in South Wales, dated the 20th March last, the formation of a direct communication between Cheltenham and Oxford is expressly contemplated. And the necessity for such a direct communication, and the extension of it in the same straight line to the metropolis, will be manifest on an inspection of the map of the railways of England, which, at one glance, shows that the whole of the important districts lying between the London and Birmingham Railway on the north, and the Great Western Railway on the south, are entirely devoid of railway accommodation. So that, independently of the great advantages of the present undertaking as a through trunk line between London and Herefordshire, Monmouthshire, and South Wales, it affords the means of direct communication with the metropolis, and with each other, to the counties of Buckingham, Oxford, and Gioucester.

cation with the metropoiss, and with each other, to the counties of Buckingham, Oxford, and Gioucester.

As an investment of capital, this undertaking may be confidently asserted to present advantages unsurpassed by any other. The very fact of the proposed rail-way taking a direct course through a highly productive agricultural and manufacturing country, at present unoccupied by railways—a country capally rich and populous with those now occupied by the two great lines on either side, the one of which pays 10 per cent. and the other 8 per cent, per annum dividend, on capitals amounting fogether to upwards of £14,600,000—renders all statistical details unnoccessary. The surveys are being completed, and the results aircady arrived at prove the line to be free from any considerable engineering difficulties.

Power will be taken in the hillto allow interest at £4 per cent, per annum on all calls, from the passing of the Act until the opening of the line, or until a dividend la declared.

particulars will be given at the office of the company, No. 18, Old Jewry, Old Jewry, London, where applications for shares may be made. Applicable be accompanied by a reference to some member of the provimities, to acc of the leval agents, or to some London banker.

A meeting of the proprietors of this company was held on Thursday last, at the offices, 32, Great Winchester-street, there being a very full attendance of numbers, evincing the deepest anxiety in the report, which, it had been understood, weuld, be of unusual importance.—J. Ö. HANSON, Esq., on taking the chair, called on Mr. MAUDE (the secretary) to read the notice advertising the meeting, which having been done, the Secretary read the following report:

In recting the proprietors on the present ecoasion, the directors have sincero pleasure congratulating them on the favourable result of last year's operations at their establishm in Oaxacs, and the still more favourable prospects for this year, which are held out them by their agent, Mr. Fenochio, in the following extracts from his letter to the distors, dasted 15th February last, transmitting the accounts of the negotiation of Yavesia the last year:—

In receiting the proprietors on the special consistent, which have indeed in incompanishing them on the Avourable receit of the year, which are held out to them by their agent, Mr. Fencchio, in the following actracts from his letter to the directors, dasted 18th February last, transmitting the accounts of the negotiation of Xavesia for the last year—

for the last year—

profits of \$11.488 of \$6 (equatio 1250; 1.48 cd.), after crediting the directors \$250.0, or 500. sterling, for the company's expenses in England for the year 1844. This enables may with \$2.48 cd. \$6 of the former year's balance, to remit by this opjointunity a ball, drawn in 1822. 13s. 10d., which, with the proceeds of the \$5000 transmitted to the directors in September 1944. \$2.48 cd. \$6 of the former year's balance, to remit by this opjointunity a ball, drawn operations, 30004, which, I trust, will enable the directors to declare a dividend of 10s. per share at the annual meeting of proprietors in May next. Had political events not \$800,000. I state this, because the Extreet district can hardly be said to have had, a fair trial during the hardly proceedings of the public authorities, who, not content with a sking our workness, and forcing them to become soldiers, have, in several other respects, been a source of great annoyance to success, I have thought proper to suspend the course of the workness. The public of the course of the whole, I can force on the second to success, I have thought proper to suspend this process for the present, and to place the helecada of Socorro under amparo. The company-possesses a good stock of the most necessary stores to supply active work for the next two years. On the whole, I can forces on research to dust the well-doing of the company—the said of this second, the said not received the director's anction to the increase of his year's operations, which are the profit has now actively the said of the second in the said of the second in the said of the

maying given the requisite notice, now offers immeel as a candidate.

The Mexican Company, from its commencement in March, 1825, to Dec. 31, 1844.

Da.

Capital: For the amount received for deposits and calidto 31st December, 1843, as per statement submitted to the proprietors at the annual meeting held on the 2d of May, 1844.

E392,410 0 0.

Profit and loss balance on the 31st of December, 1844, consisting of dividends, interest, and profit on sale of stock and Exchequer Bills on the indemnity fund account, discount on prompt payments, and other items 2,174 15 6

£363,176 11 3

Deduct the amount received from Mr. Pasqual Fenochio on account of this year's profit General expenses: For the amount disbursed under this head, for salaries, rent, law charges, taxes, advertise-ments, &c., from the commencement to 31st December, 1843, as per statement above referred to Addition to ditto in 1844 Trustees' indemnity fund: For 1000/. Consols, valued at '89 yer cent. 28,979 15 0 502 15 7- 29,482 10 7 950 0 0

1,050 0 0— 2,000 0 592 3 2 62 10 7 23 16 1— 608 9 aed at

The CHAIRMAN observed, that the result of the past years' operations, as

tated in the report, was considered by the directors, not only highly satisfac tory in itself, but an earnest of the future prosperity of the company; and he trusted that the proprietors would agree with them, in the propriety of declaring the dividend, which they had recommended in the report. That the prering the dividend, which they had recommended in the report. That the present satisfactory account was not merely a temporary success, but a well-grounded prospect of permanent prosperity, was little doubted by the board of directors, and this opinion was confirmed by the unhesitating expression of confidence on the part of their agent in Mexico, Mr. Fenochio. After paying all expenses for the last year, the company had now 500L in hand, after providing for this year's expenses here, and 2000L more in the indemnity find, whilst, to add to their prospects, Mr. Fenochio had made provision for all requirements, as regards stores, &c., for two years to come.

The report having been unanimously received and adopted, the meeting, in accordance with its recommendations, re-elected Thomas Wilson and Thomas Alexander Mitchell, M.P., Esqrs., the outgoing directors, as directors for the ensuing year, and William Walmesley Terrington, Esq., as auditor; George Lewis Hollingsworth, Esq., was elected a director in the room of Mr. William Burnie, disqualified.—A vote of thanks was passed to Mr. Fenochio, for the services he had rendered the company on their property at Mexico, the chairman and board of directors, and the secretary; when the meeting separated.

MINERS' SHOVELS.—Mr. W. Brunton, jun., of Poole, engineer, has taken out a patent for a new miners' shovel, the novelty of which consists in the mate rials of which it is composed, and not from any peculiarity in the make. He uses an alloy of three parts copper, two zinc; and one tin, which, when in a fluid state, is to be poured into a mould of sand one tin, which, when in a fluid state, is to be poured into a mould of sand of the form required; after being taken from the mould, it is to be slightly hammered on a smooth anvil to give it consolidation. If required to be peculiarly hard and tough, he uses eight parts copper to one tin, but without zinc; there must be a great difference in price between these and iron shovels, but they will, no doubt, last a proportionately longer time, and perform the work more efficiently. NISTER DALE IRON COMPANY.

In its last regulation of the commercial tariff, the Zolverein imposed a aries of enormously high protective duties (in many cases amounting to olute prohibition), on every description of foreign iron imported into the German States, yet, in spite of these duties, and the heavy cost of transport, the increasing demand has compelled the importation of large quantities of all kinds of iron from England and other places. The op-

transport, the increasing demand has compelled the importation of large quantities of all kinds of iron from England and other places. The opportunities thus thrown open for the more extensive development of the iron manufacture in Germany, induced a number of influential gentlemen, connected with the iron trade in both countries, to unite in the formation of the above company for the purpose of working some extensive and valuable mines of iron ore and coal, situated in the valley of the Nister, near Hachenburg, in the Duchy of Nassau. The quality of some of these ores are equal to those of Sweden, and can be converted into pig-iron of the first quality. Works and buildings, for the manufacture of railway, bar, sheet, and every description of iron, have been erected. Blast furnaces are about being erected, but the puddling forge and rolling mills being ready, it is intended to meet the extensive demand to supply them for the present from the neighbouring furnaces, in addition to which supply of pig-iron, the disproportionate duty between cast and wrought-iron will leave a fair profit on conversion.

The very great advantages which this company must evidently possess, in its valuable ores, extensive works and properties, facility of obtaining labour at a low cost, and the great and increasing demand for their produce, holds out the cheering prospect to the shareholders, that the various kinds of iron can be manufactured at a cost not exceeding that in any other country; and, from the most careful estimates, it is confidently anticipated that a profit of fifteen per cent. will be made. The works, upon the completion of the Cologne and Weisbaden Railway, will be within easy access of the Berlin, Rhemish, Dutch, and Belgran lines of railway, as also with those of Wiestaden, Basle, Frankfort, and Strasbourg: thus, in addition to the numerous native markets already in existence, giving the greatest facilities for opening new ones throughout the continent. This company being recognised by the Government as a Societe A

GNA IRON COMPANY .-- Dr. Kane, in his excellent work on the Industrial Resources of Ireland, from which we gave copious extracts, in former numbers of the Journal, among a large mass of valuable information on the mining resources of the country, has noticed at length the particularly valuable iron of the Journal, among a large mass of valuable information on the mining resources of the country, has noticed at length the particularly valuable iron ores of the Arigna district. Perhaps there is no part of this valuable work which displays more patient research, or more accurate estimate, than those chapters relating to the important manufacture of iron. The correct data given, and the sound reasoning from the facts introduced, which pervade that portion of the work, have already began to make an impression where it will be likely to have an effect on the industry of the country; and we are happy in being informed, that a body of capitalists have formed a company, for the purpose of working these valuable but hitherto unfortunately notorious mines, and that this determination has been come to from the elaborate and laborious researches of Dr. Kane having more than fully borne out all the highly favourable opinions hitherto entertained on the valuable character of this property, if worked with economy, spirit, and in accordance with true practically sciencific knowledge. Mr. Latouche's interest in the Royalties have already been purchased, as well as all joutstanding claims, and we hope shortly to have to announce the relighting of the furnaces, and, by the full development of its great resources, the constant employment of a large number of hands. The iron of the interest in the interest in the iron district called Slieve Neeran, or the iron mountain. Resting on the limestone occurs a great bed of clay slate, 600 feet in thickness—the most important occur from 200 to 300 feet above the limestone, and contain some ore as rich as in any part of the world—the usual form is that of nodules from the size of an egg to a bull's head, but is also found in strata or sheets of considerable length. From the disintegration of the clay slate, the modules roll down the mountain, and are deposited in incredible quanties on the margins and in the beds of the streams, from whence they are collected and brought to the world—t

CWMORTHIN SLATE COMPANY.—The well-known quarries of Cwmorthin 25 miles from Carnarvor, and 13 from Portmados, are a continuation of the same slate formation which has so long been celebrated for its valuable and extensive productions in Merionethshire; and, under judicions management, may, no doubt, be rendered as extensive and lucrative as any, works in the principality. There is but little, if any, doubt of the valuable nature of this quarry, it having been fully proved by actual working to some extent; the slate is found to be of a very superior description, and greatly improving in quality as the veins are worked in depth. In addition to the mineral wealth on this property, there are 200 acres of land, admirably adapted for the general purposes of the works, and there is sufficient water power for working the requisite machinery for sawing and planing slate. A company has been formed, with a capital of 100,000l, for developing the resources of this property, and by proper clearing and further extending the works, it is estimated that the quarry will produce 10,000 tons of slate per annum, and that a profit of 16 per cent. may be safely calculated upon, which, from the improving nature of the slate in depth, may be expected gradually, but continually and permanently, to increase. The terms on which the property is held are highly advantageous, while, from the agreements entered into, the fee simple can be purchased at a future time—thus enabling the company to work the slate without royalty charges or other interference; this latter circumstance is in itself, a feature of considerable importance in works of this nature, and the formation of this company seems, under all circumstances, to hold out legitimate inducement for investment, with a fair prospect of ample return for the capital expended.

METALS AND METALLIC PROPERTIES.—On Saturday last, Professor Faraday continued his series of lectures on Metals and Metallic Properties, the subject for that day being more especially the consideration of tin; but the lecturer adverted also at length to the combustibility and affinity for fire which the metals generally possessed. The peculiar properties of tin-foil were ably dilated on by the learned professor, and their applicability as a reflecting medium as adapted for mirrors, illustrated by numerous experiments. Several quantities were melted, and the efficacy of the process very beautifully established. The value of tin, as an article for dyeing, was clearly explained and demonstrated by a series of experiments, in connection with cochineal, ammonia, and water; where, in each instance, the metal proved its greater or less affinity for another, by combining with it; and gradually sinking to the bottom of the vessel in which the chemical admixture was placed. The combustibility of the metals was illustrated by submitting in succession to a sufficient heat, antimony, iron, tin, and other metals—their ready combustion, emitting sparks, and retaining heat; the high state of oxydation in which the particles remaining after combustion were found, especially antimony, clearly evincing their great affinity for high state of oxydation in which the particles remaining after combustion were found, especially animony, clearly evincing their great affinity for oxygen. As an amalgam with copper, the formation of bronze was obtained—a compound capable of receiving the finest edge, and of being ground to the finest point. To illustrate this and its extreme durability, the lecturer exhibited some helmets found at Olympia in the Peloponnesus, an arrow pointed with bronze, and several other most beautiful specimens of ancient intelligence and artistic skill, especially a very perfect beak recovered from the bottom of the sea at Actium, and consequently, without doubt, forming the figure head of one of the vessels engaged at the celebrated battle there. This was in a beautiful state of preservation, and, together with the helmets, and some curious medals, elicited the admiration of the audience. The learned professor, in the course of his lecture, illustrated also the superiority of iron over bronze guas, and stated, that at the siege of St. Sebastian, 300 rounds were fixed from the British iron cannon, while not 100 could be discharged from those of the French, in cannon, while not 100 could be discharged from those of the French, in consequence of, when heated, their extreme liability to explode; although, when cold, they would sustain a far greater shock than those constructed of iron. Mr. Faraday concluded a most interesting lecture, by producing a drawing, clucidatory of the manner in which the French bronze guns burst around the touch-holes, and were thus rendered useless, even prior to their danger of explosion. to their danger of explosion.

BIDEFORD AND TAVISTOCK RAILWAY. of through or near the towns of Torrington, Hatherleigh, and Obshampto JOINING THE BRANCH OF THE SOUTH DEVON RAILWAY,

which is to be made from Plysnouth to Tavistock—thus effecting a direct of through the county of Devon from north to south. Length Forty-fee Miles.

Capital £360,000, in 14,400 clares, of £25 cach.—Deposit £1 7s. 6d. per stare.

(Provisionally Registered.)

Mesers. Rice and Thomas Hopkins, Members of the Institution of Civil Engineers.
Solieffor.—Hull Torrel, Esq., 30, Basinginall-street, London.
LOCAL AGENTS—Mesers. Burd and Son, Okehampton; James Rocker, Esq., Bideford.

Messrs. Rogers, Olding, and Co., Cleanent's-lane, London.
London and Westmanster Bank, London.
London and Westmanster Bank, London.
The preliminary surveys and estimates have been made. The prospectus, with a list of the names of the local patrons and committee of management, will be published in a few days, and may be obtained from the solicitor, to whom applications for shares may be addressed.

To the Committee of Management of the Bisicford and Tavistock Rastway.

Senon,—I request that you will allot me shares in the above company, and rundertake to accept the same, or such less number as may be allotted to me, the deposit thereon, and also to execute the Parliamentary contract and substagreement, when called upon so to do.—Dated this day of 1843.

Name in full Residence.

RAND UNION RAILWAY—COMMENCING AT NOTTINGHAM, and extending via GRANTHAM, FOLKINGHAM, SPALDING, HOLBEACH, LONG SUTTON, AND SUTTON-BRIDGE, TO KING'S LYE. IN NORFOLK.

Provisionally Registered, pursuant to 7 and 8 Victoria, cap. 110.

Capital £1,500,000, in 60,000 shares, of £26 each.—Deposit £1 10s. per share.

THE RIGHT WORSHIPFUL THE MAYOR OF NOTTINGHAM.

Jonathan Burton, Esq.

derick Plant, Esq.

Mr. Thomas Gee.

Mf. Thomas Gec.

PROVISIONAL COMMITTEE.

And Mayor of Nottingham

S. Hitchinson, Esq. M.D., Nottingham

S. Hitchinson, Esq. Mottingham

the Mayor of Nottingham

S. Hitchinson, Esq. Mottingham

the More of Nottingham

dedrick Plant, Esq. Nottingham

comas Wakefield, Esq., Nottingham

comas Wakefield, Esq., Nottingham

diliam Carliedge, Esq. Nottingham

mathan Burton, Esq. Carrington

mitiliam Gill, Esq. Mot. Nottingham

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mathan Burton, Esq. Carrington

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fras. Wakefield, Jun. Esq. Nottingham

Fras. Wakefield, Jun. Esq. Nottingham

Fras. Wakefield, Jun. Esq. Nottingham

W. E. Laycock, Esq. Station Hall

William Taylor, Esq. Nottingham

M. E. Laycock, Esq. Nottingham

W. E. Laycock, Esq. Nottingham

W. E. Laycock, Esq. Nottingham

M. E. Laycock, Esq. Nottingham

W. E. Laycock, Esq. Nottingham

M. E. Laycock, Esq. Seq. Nottingham

M. E. Laycock, Esq. Nottingham

M. E. Laycock, Esq. Seq. Seq. Nottingham

M. E. Laycock, Esq. Seq. Seq. Nottingham

M. E. Laycock, Esq. Seq. Seq. Nottingham

M. E. Laycock, Esq. Seq. Nottingham

M. E. Laycock, Es

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Messrs, W. and S. Parsons, Jun., Nottingham.

Messrs, W. and S. Parsons, Jun., Nottingham.

PROSPECTUS.

This important line of railway will commence near the Midland Counties station at Nothingham, whence, after crossing the navigable River Trent, the line will proceed through or near Bridgeford, Holms, Rateliffs, and the intermediate villages, Bingham, Bottesford, Whatton, Elion, the rich and fertile Vais of Belvot, to the town of Grantham, thence passing through or near Folkingham and Bourn, or one of them, to Spalding, Long Sutton, Button-bridge, and the finest poining the intended Lynn and East Derelam Railway, will form the most direct line of connection between the castorn counties, and the great and populous manufacturing districts of Lancashire, Yorkshire, and Statorishires, by messne of the projected Grand Union Extension Line to Amber Gista, and other lines north of Nottingham; and by messne of the line to Yarmouth will also form a communication between the castern and western coaste of the kingdom.

The souther lines and estimate the eastern and western coaste of the kingdom.

The souther lines of the castern and western coaste of the kingdom and the state of the castern and western coaste of the kingdom castern lines and the state of the castern and western coaste of the kingdom castern and western coastern parts of Combridgeshire, will be a castern and western coastern parts of Combridgeshire, will be castern and western coastern parts of Combridgeshire, will be castern and western coastern parts of Combridgeshire, will be castern and western coastern parts of Combridgeshire, will be castern and western coastern parts of Combridgeshire, will be castern and western coastern parts of Combridgeshire, will be castern and western coastern and a considerably observed as the castern and stone to the agricultural to the whole of the great agricultural country caster than by any other casting or projected line; in short, the vast mineral wealth of the midland district, will be rendered available to the whole of the great agricultural source parts and

cheaper rate than by any other existing or projected line; in short, the vast mineral wealth of the midland district, will be rendered available to the whole of the great agricultural country east of Nottingham.

Surveys are now in progress, and the nature of the country is known to offer no serious engineering difficulties, and a great portion of the line will be nearly a dead level. The consideration of an extension of the line from Spalding or Long Sution to Wisbeach, will also form a portion of the scheme.

The Report of the Beard of Trade on the lines through Lincolnshire says — "The total cost attending the transmission of a quarter of wheat from the interior of Lincolnshire, by sea, from the port of Boston to London, including freight, insurance, lighterage, symmission, and other charges, is stated to amount to very near 8s. The charge by railwaysper quarter (allowing five quarters to the ton, at the charge of 14d, per ton per mile, at which the estimate of the Cambridge and Lincoln Railway is taken) would not exceed 2s, and the remaining charges are calculated not to exceed 2s, 6d., thus showing a bonefit to the econ growers and to the public of 3s, 6d, per quarter, occasioned by the sawing of the sums now paid for insurance, delay, loss in weight, depreciation of quality, lighterage, &c." "A still more important advantage to the farmer is afforded by the opportunity given by railway communications of availing himself promptly of the most favourable market. If frequently happens, that owing to the delay and difficulty of transmission, the farmer is compelled to sell his wheat at the nearest provincial market at a price considerably below the average rate, and to lose the advantage of a temporary rise."

"Whatever tends to equalise prices and to preventexcessive fluctuations, cannot but be considered as a benefit both to the producer and the consumer. We are satisfied that much may be done in this way by an economical and well arranged system of railway communication." The same remarks apply to the whole

Applications for shares may be made to Messrs. Capes and Stuart, solicitors, Gray's intondon; or Mossrs. W. and S. Parsons, jun., solicitors, Nottingham, where the forms opplication may be obtained; or from Mr. Charles Spencer, Mr. Pearson Peet, Mr. Samuellinson, share-brokers, Nottingham; or Mr. Charles Cancellor, stock and share-broker Gualion-court, Broad-street, London; Mr. R. S. Wilkinson, S. St. Mildred's-court, Lorn jun. Mr. R. S. Wilkinson, S. St. Mildred's-court, Lorn in Mr. Glains Haynes, Share-broker, Mauchester; Messrs, Edward King and Co., Leeds coars. Potter and Smith, Leeds; Messrs. Gollinson and Filmt, Hull; Messrs. Parsons an ownley, Liverpool; Messrs. Warburton and Co., Newcastle-upon-Tyne; Mr. J. Senion-beffield; or Mr. Andrew Moffatt, 21, George-street, Edinburgh.

GRAND UNION EXTENSION RAILWAY,

Radford, Wollaion, Buheell, Nuthall, Kimberley, Watnall, Greasley, Neethorpe, East leaveriee, Brunsley, Selsione, Codnor, Butterley, Pentridge, Ripley, Heage, & Harisay

TO AMBER GATE.

Provisionally Registered, pursuant to 7 and 8 Vic., cap. 110.

Capital £500,000, in 20,000 shares, of £28 each.—Deposit £1 10s. per share.

Edward Munk, Esq. Nottingham Park
H. S. Hutchinson, Esq. M.D., Nottingham
William Gibson, Esq. Nottingham
Henry Smyth, Esq. Nottingham
Honry Smyth, Esq. Nottingham
Honry Smyth, Esq. Nottingham
John Morley, Esq. Nottingham
John Hann Birkin, Esq. Nottingham
William Glarichies, Esq. Nottingham
William Garichies, Esq. Nottingham
William Face, Esq. Nottingham
William Taylor, Esq. Nottingham

Nottingham—Moore and Itobinson's Nottinghamshire Banking Company,
Messrs. W. and S. Parsons, Jun., Nottingham.
PBOSPECTUS.
An EXTENSION of the GRAND UNION RAILWAY is determined upon, from Not-

tingham to the Terminus of the intended MANCHESTER AND BUXTON RAILWAY at Amber Gate.

at Amber Gate.

The line will traverse the Great Derbyshire and Nottinghamshire coal-field, running from the town of Nottingham, through or near Lenton, Radford, Basford, Wollaton, Rulwell, Stuthall, Kimberley, Wainall, Grealley, Newthorpe, Eastwood, Beaverlee, Brimley, Selstone, Codono, Butterley, Pentridge, Ripley, Henge, Hartsay, to Amber Gate, and thus passing through a densely-oppulated district, inexhaustible in its mineral resources, and from whence an immense degree of local traffic must be derived; it will complete, by its junction with the Guand Union and the Manchester and Buxton times, a direct communication between the eastern and on the western parts of the kingdom.

As this line was originally a part of the plan contemplated by the prominand Union Rallway, and was merely postponed until it should be accertain fanchester and Buxton Company would carry out their scheme of extensions, the same will be apportioned to the holders of Grand Union share Drifou of one to every three.—April 30, 1848.

NORTH BRITISH RAILWAY.—Notice is hereby given, By order of the dir Edinburgh, April 16, 1845.

CHAS. F. DAVIDSON, Secretary.

REGISTERED PROVISIONALLY.

Capital £150,000; in 10,000 shares, of £15 each—Deposit £1 per share.

James Alsten, Esq. Director of the South Wales and West Cornwall Railways Frederick Ricketts, Esq. Prederick Ricketts, Esq. Prederick Part Barlow, Esq. Directors of the Great Western Railways George Emery, Esq. Director of the Waterford and Kilkenny, and Cork and Waterford Railways George Ashlin, Esq. Biggleswade

Jehn Neale, Esq. Castle Hill, High Watership Prancia Parks.

Robert Lintell, Esq., Eigelcowade.
John Robert Lintell, Esq., Eigelcowade.
John Robert Lintell, Esq., Caste Kill, High Wycombe
Protected From Lintell, Esq., Manchester, Director of the Bristol and Exeter Railway
Protected Froeierick Fault, Esq., Director of the South Wales Railway
William Rose, Jun. Esq., High Wycombe
Charles Venables, Esq., High Wycombe
Robert Wheeler, Esq., High Wycombe
Robert Wheeler, Esq., High Wycombe

heeler, Esq. High Wycomoc BANKERS. sers. Denison, Heywood, Kennards, and Co. Lombard sers. Wheeler and Sons, High Wycombe ENGINEER.—Joseph Gibbs, Esq. 7, Palace-yard. rds, and Co. Lombard-street

Mesers. Wheeler and Sons. High Wycombe
ENGINEER—JOSEPH Gibbs, Edg. 7, Palace-yard.

Mesers. Barker, Rose, and Norton, 50, Mark-lane, and 31, Parliament-street, Westminster. Mesers. Edwards, Mason, and Edwards, Gray's Inn., and 8; Delahay-street, Westminster. Mesers. Edwards, Mason, and Edwards, Gray's Inn., and 8; Delahay-street, Westminster. Secretary, protem—Mr. W. H. Wilson.

This railway is projected for the purpose of affording to the town of High Wycombe, and a large population in South Buckinghamshire, the important advantage of railway communication with the metropolis and other parts of the kingdom.

The town is situate on the high read from London to Oxford and Cheitenham, and is the market for an extensive agricultural district, the produce of which has long contributed to the supply of the metropolis. It has numerous flour and paper-mills in its immediate neighbourhood. There is also a considerable traffic passing through Wycombe, which would be intercepted by the proposed railway. The line will be rine miles in length, it will diverge from the Great Western Railway at Maidenhead, twenty-three miles from London, and passing along the rich valley of Woburn and Londwater, will terminate in the town of High Wycombe.

It will directly facilitate communication between London and the following places:—High Wycombe, West Wycombe, Stokenchurch, Radnage, Biedlow, and Biedlow Ridge, Princes Risborough, Samderion, Bradenham, Hitchendon, Great Hampden, Amersham, Great: and Little Missenden, Penn, Chalfont St. Peter, Chalfont St. Giles, Beaconsfield, Woobarn, Cookham, Londwater, Great Marlow, Little Valley, Medmenham, Humbleton, Turville, Fingest, and Ibstone, possessing an aggregate population of more than 42,000; but a district of country containing a population of at least 60,600, would feet the benefits of a reduction in the import of coal-green each of a teast of coologo. would feet the benefits of a reduction in the import of coal-green each of the continuence of the district in return. Many situations of

s obtained and plans, with forms of application for shares, may be obtained of the nrs; of J. W. Socit, Esq., 3, Bartholemev-lant, or of Messes, Aston and Scott, stock arebrokers, 11, Throgmortosirect.—april 29, 1845.

FORM OF APPLICATION.

Gentlemen,—I request that you will allot to me—shares in the "Great Western and Wpcombe Junction Railway.

Wycombe Junction Railway," on the terms and conditions of the prospectus; and I undertake to pay the deposits thereon, or upon so many as may be allotted me, and to sign the Parliamentary contract and subscribers' agreement when required;

Dated this day of 1845.

Name.

GREAT MEDITERRANEAN AND ADRIATIC

GENOA, TURIN, MILAN, AND VENICE; ANY CONFLICTION THE COMMUNICATION DETWYDERS THE
MEDITERIAN EAN SEA AND THE GULF OF VENICE.
Gapital, 30,000,000 Florins Convention—equal to £5,000,000 Sterling;
In 60,000 Shares of 500 Florins—equal to £50 cach.
Of which 40,000 will be allotted in England, the remainder being reserved for the convention of the convenient of the convenience of the conveni

Florins Convention, equal to £1 per Share, PROVISIONAL DIRECTORS.

PROVISIONAL DIRECTORS.

Henry Arrowsmith, Esq., Bayswater
John Benson, Esq., Park-place Villa, Maida-hill
Miles Dormer, Esq., Ann's-place, Sloane-street
Sir John Hare, Langham-place
William Horatio Harrison, Esq., Cecl-street, Strand
Thomas Tysden Hodges, Esq., Sandgate, Kent, and Clarendon Hotel, Bond-st
Thomas Egunid Kemp, Esq., Abchurch-iane, Lombard-street
Horace William Meteyard, Esq., Chatham-place, Blackriars
Major Newcomb, James-street, Buckingham-gate
Andrew Turton Peterson, Esq., Wakefield, Yorkshire, and Guildford-street,
Russell-square

Androw Turton Peterson, Esq., Wakefield, Yorkshire, and Guildford-street, Russell-square
Edward Sherman Polkinghorne, Esq., 12, Clement's-lane, Lombard-street
(With powe: to 8dd to their number.)
Solicitrons.

Edwin Smith, Esq., Gray's-l'm
Messra. Lewis and Ford, 28, Essex-street, Strand
Messra. Lewis and Ford, 28, Essex-street, Strand
Messra. Rogers, Olding, and Company, Clement's-lane
London and Dublin Bauk, Dublin, and its branches.

Socratar.—John Rathbone, Esq.
Applications for shares must be addressed to the offices of the company, 4, Colemanstreet, London; to the solicitors; or to the following brokers, of whom prospectasee,
printed forms, and every information may be obtained:—London, Messra. Carden and
Whitehead, Threadneedic-street; Liverpool, Mr. Thomas Crewdson, Mr. Thomas Forsyth; Manchester, Messra. Cardevil and Sons; York, Messra. Grayson and Earle; Huddersfield, Mr. L. Weatherburn; Newcastle, Mr. W. Fordyce; Wakefield, Mr. Thomas
Cuttle, Mr. S. H. Armylage; Bradford, Messra. Hutchinson, and Co.; Blackburn, Mr.
Thomas Boardman; Bristol, Messra. Tate and Nash, Mr. Luke Arnold; Exceter, Messra.
Beaumont and Langworthy; Derby, Mr. Samuel Eyre; Coventry, Mr. J. T. Holland;
Edinburgh, Messra. Thomas Farquharson and Co., Mr. A. Moffatt; Glasgow, Messra,
Jasop and Son; Birmingham, Mr. W. H. Collis.

4, Coleman-street, London, 28th April, 1848.

TREAT MEDITER RANEAN AND ADRIATIC

GIRLAT MEDITER RANEAN AND ADRIATIC

Capital 30,000,000 florins convention (or 43,000,000 sterling), in 60,000 shares of £50,000.

The provisional Deposit 10 florins convention, or £1 per share.

The provisional directors having, after mature consideration, and with a view of place the company upon a firmer basis, resolved to increase the amount of deposits to £1 per share.

Notice is hereby given, that all parties who have applied for shares will be required to renew their applications for the same, according to the forms now settled, which may be obtained at the company's office, or from the the solicitors or agents to the company. The very large number of applicants for shares in this company necessarily preclude the previsional directors from communicating by means of letter with each individual, and compels them to adopt the medium of an advertisement.

JOHN RATHBONE, Sec. 4. COMMAN, MIRRE MANER (COMMAN)

SOUTH METROPOLITAN PURE WATER COMPANY Applicants for shares and the public are hereby informed, that the provisional committee having considered it desirable to POSTPONE the APPLICATION to PARLIAMENT for a BILL until NEXT SESSION, means are being taken to insure its due prosecution. A new prospectius will shortly be resuly for delivery. In the mean time information may be obtained of the solicitors.

By order of the committee,

By order of the committee,

JOHN GALSWORTHY, 19, Ely-place.

OTICE TO INVENTORS.—OFFICE FOR PATENTS
OF INVENTIORS AND REGISTRATIONS OF DESIGNS, 14, LINCOLN'S
INVESTILS.—The printed INSTRUCTIONS graits, and every information upon the
staget of PROTECTION for INVENTIONS, either by Letters Patent or the Designs Act,
may be had by applying personally, or by letter, pre-paid, to Mr. Alexander Prince, a
the office, 14, Lincoln's Inn-Fields.

DOYAL ADELAIDE GALLERY, LOWTHER ARCADE, as STRAND.—This popular place of scientific amusement having passed into fresh hands, is now closed for alteration and repair, but will be RE-OPENED on Monday, May 5, with (among other novelties) a WORKING MODEL of PLBROW'S ATMOSPHERIC RAILWAY, 100 feet long, and capable of conveying growthup persons; also a Model of Phillips's Inundator (shibw in action), for throwing a great body of water in cases of fire the magnificent Pyrieditrope (twenty feet in diameter); popular lectures in science, the gas microscope, dissolving views, &c., daily: Admission, One Shilling; Schools, Hair we.

ONE GUINEA WELLINGTON BOOTS, MADE TO MEASURE, by G. GARRETT, BOOTMAKER, by special appointment, to the KING OF THE BELGIANS.—A STOCK of the most FASHIONABLE and HIGHLY-FINISHED BOOTS, of #8sids, kept ready made, to suit the convenience of Noblomen, Officers of the United Services, and Gentlemen, who prefer trying on boots previous to purchasing, orgiving an order.—G. GARRETT, ARMY BOOTMAKER, 130, JERSTN-STRIET, and LEICESTER-SQUARE.

REVIEWS.

The Geologist's Text Book, chiefly inten ed as a Book of Reference for the Geological Student. By D. T. ANSTED, M.A., F.R.S. J. Van Voorst, Paterster-row

legical Student. By D. T. Assred, M.A., F.R.S. J. Van Voorst, Paternoster-row.

Mr. Ansted has already appeared before the public as an author in the interesting and improving science of geology, and we believe his work, Geology, Introductory, Descriptice, and Prestical, in two volumes, of which we gave a favourable notice in a former Number, has neat with well merited success. In the volume before us, the author has endeavoured to give a perfect abstract of the general principles of his former work, in a shape peasessing facility for reseference, rather than a statement to be read, under the hope of exciting a more general pursuit of the subject, than that the student should feel himself satisfied with what he may have already attained. With this view he has worked up his materials into a perfect epitome of the science, which, while it may be looked upon as a most complete elementary work, and one which may be perused with the greatest benefit by the mere student, at the same time presents so accurate and well digested a treatise on the science as at present understood, its application to engineering, architecture, and agriculture, and the present, progress of physical geology, as to form a most perfect book of reference in a moderate compass, by which the mind may be refreshed on any point throughout the whole range of the science, without wading through pages of a more voluminous work, and for general purposes with equally successful results. In addition to what forms the subject matter of the volume, the author has introduced an analytical index, or general summary, for reference, by which every detail of the subject in the volume is at once laid before the reader. Mr. Ansted, in his works, is evidently impressed with the necessity of system in imparting geological information, and, while his previously published work is calculated to teach the science thoroughly in its descriptive and practical details, the present volume will be found a not less readable and instructive essay, while it is more particularl

The Practical Miner's Guide, with a collection of Essential Tables, Rules, and Illustrations, exclusively applicable to Mining Business. By John Budge-London: Longman and Co.

Histrations, exclusively applicable to Mining Business. By John Budge London: Longman and Co.

Among the various works which have issued from the press, for the purpose of facilitating the various processes of mine surveying, dialling, and the generally complicated operations in connection with mining in all its branches, perhaps, few have enjoyed a more deserved reputation than the first edition of the Practical Miner's Guide, by Mr. John Budge, which has now been some years before the public, and regarded as a standard, and highly useful work. We have now before us the second edition of this publication, and which, without possessing any material alteration in its general features, is replete with useful additions, extending the principles originally laid down, and showing the practical application of the mathematical tables and rules, to every description of surface and subterranean surveying. The work is divided into three parts—the first containing an explanation of the tables contained in the work, consisting of the application of plane trigonometry to the correctly laying out, and sinking diagonal and perpendicular shafts, driving levels, surface surveying, &c.; the second is an essay on some miscellaneous subjects of essential importance to the practical miner, such as the most approved manipulation in the assays of silver, copper, lead, and tin ores, on the power of steam-engines, water-wheels, &c.; and the third contains remarks on traverse dialling, the necessity of a perfect system of taking plans and sections of mines, concluding with, under the head "Geology," a description of the phenomena of slides, cross-courses, faults, &c. The work thus appears before us in a much more imposing character than its predecessor, and containing, as it does, a great deal of really useful and sound practical information, we shall give a considerable portion as axt acts, for the information of those whose avocations may not render the purchase of the volume necessary, while to the tyro in the scientific pursuits of

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BY HER MAJESTY'S ROYAL LETTERS PATENT.

MART'S ELLIPTICAL CONVEX METALLIC FLOATS, and to the SWIFT, between Newport and Bristol and Dublin steamer SHAMROCK, and to the SWIFT, between Newport and Bristol; and also to the OSPREY, running between Bristol and Wasterford. The patentee has now the satisfaction to amounce, that in addition to the ships already named, he has granted a LIGENSE to the Bristol General Steam Navigation Company to USE his PATENT FLOAT in all their steam-ships, comprising the Dublin, Cork, Waterford, and the various channel port steamers, varying in power from Jordy horses to the obsurderd each.

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NOTICES TO CORRESPONDENTS.

e not yet been able to obtain a description of the Rotary En Dundonald, but we expect one on this principle will be ht—an inspection of which we shall be favoured with, who

by the Earl of Dandonaid, but we expect we shall be favoured with, when an account of the same shall appear in the Journal.

Mercalfy's Patent Mode of Propulsion.—"Inquirer" is informed that we cannot, at present, give the desired information, as it will be four or five months before the patentee will be able to specify. We are informed, however, that the invention is of considerable importance, and will enable any number of persons to travel on common roads at great speed. We shall not lose sight of the subject.

RAILROADS IN SPAIN.—The letter of "A Small Capitalist" must stand over until the whole of "C. L. W." a "communication has appeared.

C.E. AND F.G.S."—We are always happy to receive communications on subjects nected with the objects to which the Journal is devoted, but, where remunerate expected, a previous arrangement must be entered into.

THE MINING JOURNAL

Nailway and Commercial Sagette.

LONDON, MAY 3, 1845.

The advance in the price of iron, within the past few months, to which we have from time to time directed attention, and the general improvement in the iron trade, has been most encouraging-while, as might naturally be expected, would be the case under such circumstances, expectations have been raised, and prices quoted or imagined, which any one possessing a knowledge of the trade itself, must have been well aware could never be maintained. We last week noticed the considerable rise which has taken place, while the result of the meetings held during the last and present week, noticed in an article appended to these remarks, is, in itself, convincing evidence, that we were not wrong, in saying the price of iron had reached its maximum—at least, for the present. The demands of the colliers, and others employed, have, we admit, been met by the masters with a liberality correspondent with the advance in prices, and the profits which they derive; but there is a limit, and glad are we to find, that the ironmasters have, of their own accord, determined to prevent so far as they can, those consequences which mined to prevent, so far as they can, those consequences which must result from a reaction. The demand for iron, more especially bar, and railway iron, for the next three years, can be pretty well ascertained or calculated upon, and that alone will not only keep the present works in active operation, but may justify a partial exon; but this is only for a time, and we caution those who would embark capital, from hastily rushing into undertakings, which, ever they may answer for the moment, yet, it must be remembered, require a large capital, not only invested for carrying on operations, but expended in the "plant."

but expended in the "plant."

We feel satisfied, that, with prudence on the part of the ironmasters, the price of iron, if not supported at the present quotations,
will, at least, obtain such a price, that while it not only pays a good
per centage on the capital employed, will give to the collier and
miner, as well as to all other operatives, fair wages—this is all that
can be required or looked for, and with this, we feel assured, all will
be content. The letters which appear in our columns give some
valuable statistics and points for consideration—that a certain animus pervades the writers is only natural, but it is only fair to look
on both sides the question.

on both sides the question.

Having had occasion of late to revert, with unusual anxiety, to the position and prospects of the iron trade, and being in possession of facts materially affecting, and opportunities for successfully securing its stability, we have stated our conviction of the issue of the present movement, and pointed out those attendant circumstances calculated to compromise or benefit its interests. A few weeks since, we laid before our readers a succinct statement of the probable produce and consumption of iron for the present year, and, estimating the total supply at 1,330,000 tons, and the consumption at 1,803,500, anticipated a deficiency of 500,000 tons. With respect to the former, we think our calculation was fully warranted by a comparison with former years: the produce in 1844 was 1,210,000 tons, and that of the preceeding year a shade more; so that our computant and that of the preceding year a shade more; so that our computation for the make of the kingdom, during the current year, was certainly not depreciated, and, we believe, not impugned—at the same time, our assumption of the probable demand, its exceeding the supply by a considerable figure, and the consequent effect upon the trade has been controverted, at least, in an influential quarter. A correspondent of the Time of the 31st all training states a doubt of current. correspondent of the Times, of the 21st ult., raises a doubt of our accuracy, and affects to refute our position: admitting the supply to be as we estimated, 1,330,000 tons, he computes the consumption at 886,700, instead of 1,803,500 tons, or a reduction of more than one-half, and, consequently, converting our estimated deficiency of 500,000 tons into excess of nearly equal amount—443,300. These assumptions are so widely different, so contradictory in every respect, whether immediate position or future result, that we cannot pect, whether immediate position or mure result, but take up the question, as whatever the weight to be attached but take up the question, as whatever the weight to be attached to our former assumptions, no one will dissent from us in this opinion, that the most important results are dependent on such computation, and that the effects of incorrect and conflicting statements must prove highly prejudicial, unless cautiously distinguished. We

must prove highly prejudicial, unless cautiously distinguished. We cannot but feel, therefore, that the interests of the trade are so deeply involved in a satisfactory explanation, that a plain confirmation of our statements is absolutely due to ourselves and the public.

In our previous article respecting the prospects of the iron trade, we based our estimate of consumption for this year, mainly, on the export trade, and on the requirements for railways at home; and we stated the extent of lines actually consuming iron, or immediately to be supplied with it, according to positive contract, to be 2000 miles—an actual engagement being concluded for a supply of 250,000-tons to construct these rails. Now, the Times' correspondent takes upon himself to reduce, at one breath, this amount—an amount, be it remembered, of rails contracted for—to 125,000 tons, arguing on preremembered, of rails contracted for—to 125,000 tons, arguing on premises not questionable, but fallacious. He conceiving that our calculamises not questionable, but fallacious. He conceiving that our calculation was framed on all concocted projects, on all schemes now before the world for railway construction, naturally observes that but a small proportion will receive the sanction of the Legislature; and assuming that 2000 miles of railway will be necessary, the more reasonable period for completion would be four instead of two years. Did we not consider it due to ourselves to defend our representations, we should be disposed to let the whole matter remain unnoticed, since the ignorance displayed by the correspondent on this point, would naturally divest him of all confidence whatever. Surely, he does not suppose that the 300 projects now devised do not compreend more than 2000 miles of railway; indeed, no one with common intelligence could have imagined that our 2000 miles, for which rails had been contracted for, could—had we omitted this qualifying and conclusive sentence—have embraced all the public works now before the world. But, arguing on this fallacy, he unceremoniously converts the demand of 250,000 tons into 125,000, because, for sooth these 2000 miles will require four years to complete; that may or may not be—we have our own opinion upon the period it will require; but, as to the delivery of a certain quantity of metal, constructed for a specific purpose, at a specific time, no doubt can be

This unfounded assumption, however, is not confined to this one item. but, still acting upon it, the Times' correspondent reduces our estimate at the same ratio throughout; thus, the one-fifth loss by conversion from pig-iron into rails is changed from 50,000 tons to 25,000; the chairs from 70,000 tons to 35,000; the loss in manufacture of 5 per cent., from 3500 to 1700; for railways commenced at a previous period, and supplied on retrospective contracts, he un-

justifiably includes no allowance, stating, as a reason for striking out this item of 150,000 tons, that we provided for it in our first parti-cular of 250,000 tons; to this we could demur, for he himself wrongly cular of 250,000 tons; to this we could demur, for he himself wrongly argued, that our assumption was on lines uncontracted for—nay, more, umnatured; but we have avowed, that we computed for contracted lines, as expressed, and while, therefore, maintaining this, we controvert his view, that lines contracted for in 1844, or previously, were included in the estimate. Preserving, therefore, our original calculation, so far as railways are concerned, we set down, as before, 823,500 tons as a fair and unexaggerated amount anticipated for the year. With respect to the export and home consumption being reduced, in consequence of the rise in prices, we think our opponent has strangely confused the cause with the effect; we will reply to this objection, by asking him a question—What occasioned the rise in price?—Was it not the vast increasing export consumption, coupled with the unlimited demand at home? But occasioned the rise in price?—Was it not the vast increasing export consumption, coupled with the unlimited demand at home? But let us see whether facts, unanswerable statistics will not incontestibly confirm our position. In 1834, a year of general depression, the average price of bar-iron at Liverpool being 71. 5s. per ton, the export of iron was only 174,000 tons: in 1839, when prices had reached 101.5s., the foreign market required no less than 270,000 tons; here, then, the question of high prices necessarily entailing reduced consumption is satisfactorily answered, and may we not anticipate an increase, rather than a decline, when in the face of anticipate an increase, rather than a decline, when in the face of an augmenting foreign demand (even with ten years to 100,000 tons), the selling prices at Liverpool are at present from 9l. 10s. to 9l. 15s. for the same iron which in 1839 was quoted at 10l. 5s. to 9l. 10s.? especially, too, as the adoption of railways on the continent, now becoming daily more general, will signally affect our export traffic. The same remarks are applicable to the home consumption also, which the Times' correspondent anticipates will not exceed 320,000 for the year: we are perfectly satisfied, on per-sonal information, that our estimate of 480,000 tons was far below the mark—600,000 would be much nearer the figure—and we are here reminded of another circumstance, which we will name en ant, to show that, so far from our statement being over-coloured. passant, to show that, so far from our statement being over-coloured, or delusively framed, so as to meet any argument or purpose, we have throughout, so far from exceeding, kept considerably below, the legitimate computation. Instead of taking one-fifth, as the loss in conversion from pig-iron to rails, we might have been fully warranted in saying one-third; but so cautious were we not even to bear the semblance of exaggerating amounts, that we sedulously lowered the standard of probable demand, and as readily gave the maker the full benefit of enterprise: thus waving many considerations of which we might have fairly availed ourselves. Now if tions of which we might have fairly availed ourselves. Now if, instead of taking one-fifth for waste, we had named one-third, in place of 50,000 tons loss, in converting the metal into 250,000 tons of rails we should have 86,666 tons; and this increase carried to the grand total consumption, would swell it from 1,803,500 to 1,840,166 grand total consumption, would swell it from 1,843,000 to 1,840,166 tons; and when we state this, all practically acquainted with the trade will see the justice of our computation, and know that in the very best conducted iron-works the ton of finished rails is not made with less than 27 cwts. of pig-iron—2240 lbs. in each case to the ton. Now, let us apply this to even the correspondent's estimate, and instead of

Making tons 150,000 It should stand-Making tons 168,750

and again substituting this for the second correspondent's (a share holder's) more fair, but still incorrect, calculation, the deficiency which he allows on some of his coadjutor's data, to equal 43,500

will be increased to 62,250 tons.

But, while we contend for our former position—that high rate of prices do not materially affect consumption—and while, having not only defended, but satisfactorily established, every particular of our previous estimate, we deny the statistics of our adversary; we are free to admit, in accordance, also, with our invariable professions are free to admit, in accordance, also, with our invariable professions that a rise too rapid, or unwarranted by circumstances, will, in the end, defeat its own stability—will be but temporary—and, if not assiduously guarded against, be followed by a re-action as inevitable as its effects will be destructive. Though it is frequently an ungrateful duty to predict such consequences, we have, from time to time, faithfully and fearlessly expressed our apprehensions, and have urged the necessity of extreme hesitation in raising prices, and suggested at legat precaution.

suggested, at least, precaution.

These recommendations, we are happy to say, have not been lost upon the trade; we last week had occasion to announce the partial, and the contemplated universal, reduction of 40s. per ton upon manufactured iron. This, in the early part of the week, was carried very generally into effect, and, subsequently, more definitively arranged by a meeting of the trade. On Thursday last the Staffordranged by a meeting of the trade. On Thursday last the Stafford-shire ironmasters decided, at a meeting at Birmingham, that the last advance of 40s. per ton should be rescinded, fully bearing out our previous anticipations, and coinciding in our suggestions. The only question now is, will the reduction at this late period have the de-sired effect?—true, it is within a very short period of the late rise, but should that rise have ever occurred? The sudden fall after so sudden and unprecedented an increase, cannot be viewed (by the foreign market especially) but with distrust, and our continental traders, who were beginning to come in, will now, we suspect, pause: traders, who were beginning to come in, will now, we suspect, pause yet this obstruction will be at the most but temporary, and no se-rious derangement can reasonably be anticipated from this last de-cisive move, which we consider highly laudable, and warranted, if not imperatively called for, by the questionable state of the market.

We last week adverted to the position in which Mr. Humphry Willyams had placed himself, with reference to his connection with the Stray Park and Camborne Vean Mines, he having, as we were informed, taken up the adjoining sett of Wheal Francis, and we readily give insertion to the letter of a correspondent, bearing on the subject, although, we must say, that a letter direct from Mr. Willyams would have been far more satisfactory, negativing the representations made; which, however, we apprehend, from the further inquiries we have instituted, are too well founded to admit of aught but apology. There can be no doubt, but that Mr. Humphry Williams, or any other gentleman, is at perfect liberty to take up a set apology. There can be no doubt, but that Mr. Humpher Wil-liams, or any other gentleman, is at perfect liberty to take up a sett and make the most he can of his bargain, which may, as in the present instance, cost him nothing; yet, we are still to learn, that in accordance with the morale, which, we hope, is attached to the management of mining enterprise in Cornwall, it is to be allowed, that a director or member of committee, of the adjoining mine, after taking part and being present on occasions, when the adjacent property was not only contemplated being worked, but was in part, if not fully promised, that he should have availed himself of the position in which he was placed, acquiring information and possessing influence, and so applied these advantages to his own benefit, to the manifest injury of those, with whom he was not only associated, but whose interests were committed to his care. We consider that an explanation is due from Mr. HUMPHEN WILLIAMS. sociated, but whose interests were committed to his care. We consider that an explanation is due from Mr. Humpher Willyams, and to which we shall most cheerfully give insertion; while we cannot imagine, for a moment, that he will evade or think it beneath his notice, to deny a charge, which reflects sa much on his probity—at the same time, that we are led to hope an explanation will be afforded, which will exculpate that gentleman from the charges which have been put forward. which have been put forward.

Were it not for the esteem in which Mr. HUMPHRY WILLYAMS is

generally held, and the high character he possesses in the co we should have, perhaps, allowed the matter to have escaped public attention, leaving it to those interested to have taken such steps as they might deem expedient; but we feel that it is not only due to the interest he represents, but even to Mr. Humphry Willyams, to canvass well the matter, which has caused no ordinary sensation with adventurers in mines—at least, that is to say, the out adventurers. If acts of this nature—for, in the absence of any denial, we must assume the representation made us to be true—be permitted to pass unnoticed, then farewell to all confidence, and, with that, we may say, farewell to the mining interest of Cornwall. We have enough to compat with—the import of forcing even the use that, we may say, tarewell to the mining interest of Cornwall. We have enough to combat with—the import of foreign ores—the measures adopted for the removal of the slight protective duty, to which we adverted in a late Number, is sufficient in itself to induce every Cornishman to be honest, if even he considered his own interest alone. Mr. WILLYAMS is a smelter, and, to his honour be it said, is not one of the memorialists for the admission of foreign ores duty free. His partners signed the memorial, but, true to Cornwall, he would not attach his signature to an instrument which in a meais not one of the memorialists for the admission of foreign ores duty free. His partners signed the memorial, but, true to Cornwall, he would not attach his signature to an instrument which, in a measure, if carried out, was the death-warrant of the mining interest of that county. We hailed with pleasure and with pride the absence of his name, and that of Mr. Michael Williams, from the instrument, but we regret that we should have occasion to refer to any act of his which should compromise his character. We will even yet hope that an explanation may be afforded; and, furthermore, that the suggestion of our correspondent, that the adventurers in Stray Park and Camborne Vean may yet participate in any advantage which may arise from the "take will be carried out.

We need hardly say that it is upon principle we thus bring before our readers a matter which might be considered rather of a private nature, yet we feel assured no one would be more ready than Mr. Humpher Willyams himself to institute an inquiry, and afford the means of explanation, where the character of a man, heretofore maintaining a high position, was called into question. We can only, in conclusion, express our hope that the explanation, when afforded, will be satisfactory, and that an amicable arrangement will be entered into between Mr. Willyams and the adventurers; it is with such desire, and in such expectation that we decline giving insertion to one or two letters we have received on the subject, but which, if needs be, shall meet attention in our next.

THE IRON TRADE.

A meeting of some of the most influential Staffordshire ironmasters, was held on Thursday last, at Birmingham, when it was resolved to take off the last advance of 21. per ton upon manufactured iron, which, it will be remembered, we refered to in our remarks of last week. A meeting of iron merchants was also held at Liverpool, on Wednesday last, when it was stated, that the great objection to the present mode of transacting business in Scotch pigiron, was that this description of property, unlike cotton or other articles, which are warehoused by third parties, and who can transfer in their books possession from party to party, the maker is both original contractor and warehouseman; transfers are made by the deligious of the first buyer mon him, endorsed from party to ginal contractor and warehouseman; transfers are made by the delivery orders of the first buyer upon him, endorsed from party to party, and the contract not being in itself assignable, cannot be enforced by any one but the person with whom it is made, or an authorised assignee; so that, by the time it gets into a third hand, there are no means of enforcing the contract against the original seller. The object of the meeting, therefore, was to have warehousemen appointed in Glasgow, to take delivery of pig-iron, and issue certificates for that purpose, which should be transferable, and afford a security in point of legality. After a long discussion, in which the advantages of the proposition were universally admitted, a deputation was appointed to communicate with the trade on the subject of the meeting, and empowered to convene another meeting ject of the meeting, and empowered to convene another meeting to adopt final measures. A meeting of the united body of the trade is, we understand, intended to be be held on Monday next.

The iron market is much firmer in Scotch pigs, the speculators again turning their attention to it; 85s. has been paid within the past week for 10,000 tons, and there are few sellers now under 87s. 6d., though we are aware of an offer being made of 1000 tons Scotch pig at 80s., which, being under some risks, was even de-clined by the party, though the terms were subsequently accepted by another less cautious trader.

French Laws affecting the Importation of Iron.—An act is now in the course of discussion before the French Chambers, relative to the customs' laws, and M.M. Peltereau de Villeneuve and Duval de Traville lately proposed an amendment, respecting castings, to the effect, that the duty of 7 f. per 100 kil., now levied on all rough castings imported by sa, should also be extended to those introduced by land; this amendment, which it will immediately be seen would materially concern the trade of Belgium, was, however, rejected by the Chambers. Mr. Peltereau, in taking up the proposition, discusses the considerations which induced the legislature of 1822 to concede to the law now in force, and contends that the spirit of that law is, to establish on an equal footing the castings of France and Belgium. In fact, besides the duty of 4 f. to which they were subject on entering France, the Belgian produce had previously paid a tax of 2 fr. 35 c. on their leaving their own country, which proves that, virtually, this equal footing was sought; that is, that the transit by sea was much less expensive than that by land, and, therefore, on the former mode a tax of 7 f. was imposed. But now the conditions are changed, by different measures taken by the Belgian Government in the interest of the exportation of its mineral produce. First—the redemption, by the State, of the Belgian portion of the Sambre Canal, and the almost gratuitous transit of castings on it to Paris; secondly—the suppression of the export duty; and thirdly—the reduction of fires on the Felcian railways, which different measures taken by the Belgian Government in the interest of the exportation of its mineral produce. First—the redemption, by the State, of the Belgian portion of the Sambre Canal, and the almost gratuitous transit of castings on it to Paris; secondly—the suppression of the export duty; and thirdly—the reduction of fares on the Belgian railways, which now renders its transport by land easier than that by water. All this is true; but, nevertheless, they are not the principal causes of the circumstances mentioned by M. Peltereau—the augmented importation of Belgian castings, which has increased six-fold in four years, and the ill success of French metallurgy. The origin of that industrial excitement which has now for some years characterised Belgium, was the creation of a very considerable number of iron manufactories, the inordinate production and stagnation which ensued, and at last, as a natural consequence, the commercial crisis, the almost universal failure of these works, and the sale, at any price, of the over-stocked produce, and, subsequently, the transfer to the French soil of the Belgian works, erected by their proprietors for the working the casting furnaces, which they originally possessed in Belgium. This, then, is the real cause of the increased importation, injurious, no doubt, to French labour, and, in particular, to that of the north; but another concurring circumstance, similar to that of the interior, has been, we think, still more fatal. France, in effect, is still prejudiced by this industrial excitement, and the sprit of charlatanism and illegitimate speculation still matures its victims—the result being the same as in Belgium. It would be useless to speculate on the other causes of the failure of our metallurgy, and of the dissolution of that equality on which home and foreign produce was originally based. That which more prominently presents itself at this moment as the chief undermining principle, is the exhaustion of the Belgian castings, and their recent exportations in German itself at this moment as the chief undermining principle, is the exhaustion of the Belgian castings, and their recent exportations in Germany, indicating, too, the advance of prices in a very short space of time, among the neighbouring districts; this increase has now reached from 8f. to 11f. per 100 kil., and if to this price is added 10c. for the export duty, and 4f. 40c. the import duty, it arrives on the frontiers at a price of 15f. 50c., whilst the refined castings at Saint Dizier are not quoted at a higher figure than thirteen francs. If, then, under actual management, the French casting can even struggle against the Belgian, is it not a still more convincing proof, that this failure of the reciprocal and equal standing, and the distress of the French metallurgist, are due, not to the reduction of the duties, but the causes we have named. And if, in spite of this dimunition in the tariff, which was considered necessary in 1822, this balance between these two branches of national commerce could be preserved, is it not a most unequivocal proof of the great progress of French metallurgy.

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According to the notices issued for some time past, this bridge was thrown open to the public on Thursday last, the 1st instant. No procession, or any of the usual formalities, took place on the occasionthe directors merely passing over amid a display of flags, firing of guns, &c., when the public were admitted, and a large number of ladies were presented with an engraving of the bridge, printed in gold, on glazed card. A very large concourse of people continued to throng the avenues, and it is estimated that nearly 25,000 persons passed the bridge during the first twelve hours, paying about 50.

The directors and their friends afterwards dined at the London Tavern, he will be the concourse of the absence of

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The directors and their friends afterwards dined at the London Tavern, when William Hawes, Esq., presided, in consequence of the absence of the Earl of Devon, the chairman of the board of directors; among the company present were the engineer, I. K. Brunel, Esq., the Rev. Mr. Prowse, Dr. Moore, J. L. Seager, R. Todd, W. Evans, E. Cooper, Esqs., &c. In proposing the prosperity of the undertaking, the Chairman passed a guilt-merited eulogium on the talents of the engineers, to which Mr. and made a suitable reply; and on the health of the Earl of Devon, and the directors having been proposed, and warmly responded to, the same was acknowledged by J. L. Seager, Esq.

As this structure is now open to the public, and will no doubt become a very considerable thoroughfare, from its central position, the following information as to its construction will, no doubt, be interesting to our readers. The suspension portion of this bridge (which is intended for foot passengers only) is composed of four massive chains, two on each side the platform, placed one above the other; the greatest part of these-chains are formed of ten and eleven links, alternately; but near the piers, to give increased strength, to bear the extra strain, resist the force of the wind, and prevent vibration, they are increased to eleven and twelve links. Two brick towers, or piers, in the Italian style of architecture, are built in the river, and over these the chains are carried in the following manner—viz., to the chains are attached large and strong wrought-iron plates, sirmly bolted together in a vertical position, and then again to a horizontal plate, forming a saddle; on the top of the pier is a thick iron plate, supposted by solid iron and timber girders, upon this are placed fifty anti-friction rollers, on which rests the saddle with the chains, by which arrangement the saddle has a lateral motion of eighteen inches each way, or three feet in all; and should one portion of the structure, at any time, become over-crowded, the chains would adjust t

any time, become over-crowded, the chains would adjust themselves, and cause the strain on the piers to be still perpendicular, without any tendency to pull them over.

The following are the several admeasurements of the bridge:—Height of tower, 80 ft.; central span between the towers, 676 ft.; length between abutments, 1352 ft.; width of platform, 14 ft.; height above high-water at centre, 32 ft.; height above high-water at centre, 32 ft.; height above high-water near towers, 28 ft.; length of each link, 24 ft.; width of each link (being 1 in. thick), 7 in.; total number of links, 2600; weight of links, 715 tons; number of links between piers only, 1280; their weight, 352 tons; sectional area of chains in centre, 296 sq. in.; sectional area of chains near the towers, 312 sq. in. It will thus be seen that the centre span of this structure is 110 feet wider than the celebrated Menai Bridge, and is, we believe, the widest span of any bridge in the world, either on the suspension principle or otherwise. Its appearance is picturesque in the highest degree; and from near the Admiralty, opposite the end of Whitehall-place (the best point of view from which it can be seen), its appearance may well be termed that of a "flying bridge." It has an exceedingly beautiful appearance, also, from the highest point of Westminster-bridge. The following ingenious method was adopted for raising the chains, without the necessity for scaffolding of any kind, or interrupting, for a moment, the navigation of the river. On the completion of the towers to the necessary height, three of Andrew Smith's patent wire-ropes were drawn from one abutment to the other, on each side, over the towers, in the situation eventually to be occupied by the permanent chains; cradles were then hung on these ropes, and made to traverse at pleasure, as required; these cradles contained the necessary windlasses, &c. A barge, containing the links, being moored beneath, four men hauled them up, placed them in their places, as the work proceeded, to which the p

proceeded, to which the platform is suspended.

This elegant structure is amply secure as to strength. A square inch of iron breaks with a weight of 27 or 29 tons; but, taking what is termed the impairing weight—viz., that at which it begins to stretch, and which is about 17½ tons, and multiplying it by the sectional area in inches—we have 296 × 17½ =5180 tons, the estimated load the structure will bear, and it is calculated to bear a much greater weight than that of a dense mass of human beings packed upon its surface, and estimated at 100 lbs. per square foot; it has cost 106,000L, I. K. Brunel, Esq., being the engineer-in-chief, and Mr. P. P. Baly the resident, upon both of whom it reflects the highest credit.

IRON SHIP-BUILDING.

The use of iron in the construction of steam-ships, though now no longer a novelty, is, we believe, not by any means generally understood, and although the science of iron ship-building has made great and rapid improvements in the last few years, there is yet much to be effected, but which, by the happy combination of scientific theory and experience from practical results, will, in a few more years, entirely supersede the use of timber in ship-building. The cost of iron vessels may in general be considered as nearly as possible the same as timber, nor does a fluctuation in the price of iron make any considerable difference, so large a portion of the whole cost being labour. Among the advantages which may be claimed for iron vessels is their superior sailing and steaming powers, being lighter in proportion to size, drawing less water, and larger stowage in proportion to external measurement. They are also completely water-tight, of great importance to many freights of perishable goods, and which is accomplished by close sheet-iron lining inside the ribs. Experience begins now generally to prove that iron vessels possess greater durability and strength than those of wood; there is at least no fear of dry-rot; they are but little exposed to those universal occupants of ships—rats; and the liability to corrosion, an objection which has been raised against them, is not found in practice to be of much importance, while repairs of every description can be effected with every facility. But the greater security to life and property which are possessed in an eminent degree by iron ships, constitutes their principal advantage, built in distinct compartments, with water-tight iron partitions crossing the ship, so that if any part of the vessel has a hole stove in it, one compartment only fills, and the buoyancy of the vessel is retained. This eminent superiority of iron boats is amply borne out by experience, and the numerous instances of partial shipwreck to iron vessels, in which they have afterwards been got into port, and human life secured, where timber ships must have been lost, is a pow a novelty, is, we believe, not by any means generally understood, and al though the science of iron ship-building has made great and rapid im-

crew had plenty of time to save themselves and their clothes, and she afterwards went down in deep water.

The Wye, from Bristol to Chepstow, was cut down by an Irish steamer a foot below her water line; yet this only filled her forward compartment, and she proceeded on her voyage and landed her passengers in safety. The Vanguard, an iron steamer, which was exposed for ten days to heavy breakers in White's Bay, Cork, is also a case in point of the strength of iron, and the value of compartments, and many other instances might be given. The great difficulty which was experienced, in consequence of the action of the compass being impeded, has, we believe, been satisfactorily surmounted, and the accumulation of grass and weeds which attach to iron vessels to so great an extent as to impede their progress to a serious degree, will be ultimately entirely prevented. The application of iron also to the comstruction of life-boats for steam-packets and passenger ships of every description, as well as to all ships' boats, deserves the most serious consideration and encouragement. In weight and price they are about the same as oak, while they possess many advantages, which must, however, wait the test of experience before they can be duly appreciated. Iron, well painted before being used, and kept in good order afterwards, will last a very long time; and should the galvanic process be made available for its protection under such circumstances, their durability will, doubtless, exceed that of wards went down in deep water.

wood; and it is to be hoped that, in a short time, every sea-going vessel will carry such a boat, or boats, capable of carrying in safety every human being on board. We have had our attention called to one plan for a boat of this kind twenty-four feet long, eight feet broad, and three to three and a half feet deep. She is to be formed of sheet-iron inside and outside the ribs—thus forming an air-tight tank all round divided into compartments; air-tight tanks also cross the inside, and form the seats; the buoyancy of this boat is equal to 15,000 lbs.; it will seat forty passengers, whose aggregate weight may be taken at 6320 lbs, but is quite capable of carrying seventy people, even if the open parts were filled with water. The weight would be about a ton, and one could be made for about 50l; but, should they become an article of general manufacture, might be made for considerably less. The question of the utility of iron for ship-building may be considered as decided, and we think the time is rapidly approaching when our "wooden walls" will be among the "things that were."

NASMYTH'S STEAM HAMMER AND PILE DRIVING APPARATUS.—The ingenious application of steam by direct action to the forge hammer, first introduced by Mr. Nasmyth, of Patricroft, more than two years since, is making most triumphant progress, and is evidently effecting very important results in the advancement and improvement of the manufacture of wrought-iron in its various branches. Simple in principle, yet powerful to an extraordinary degree, and capable of being managed with the most perfect facility and precision, the "direct action steam hammer" is, indeed, worthy of the consideration of iron manufacturers, and the engineering world. Having long paid attention to the imperfect, and very slow and uncertain effects of the old system of driving piles, Mr. Nasmyth afterwards applied the principle of his steam hammer to a pile driving apparatus (a notice of which we gave in the Mining Journal of the 17th of August last). The first experimental operation of the perfected machine was made on Saturday last, and with results so extraordinary and important, as to have astonished all who witnessed them. On this occasion a pile sixteen feet long, and fourteen inches square, was acted upon; the hammer for driving the pile weighed 50 cwt., having a fall of 3 ft., keeping its relative height as the pile descends, and goes down with it. The operation being so easy, rapid, and complete, as to excite the most pleas ing admiration in all who witnessed it. The vast rate at which this machine performs its operations, must open a new era in the important process of piling, and while hitherto it has ever proved the most serious and expensive of engineering operations, in future we may expect the system to be introduced under circumstances never before contemplated, and the machine of Mr. Nasmyth, mounted on wheels, and rapidly driving its piles as it proceeds, will, no doubt, in the formation of railways over peculiar soils, effect a complete change, in their preparatory construction, their cost, and durability. In the construction and action of this machine, the principal novelty is the manner in which the steam by direct action is made to act on the ram or driving block, so that, merely by the alternate admission and escape of the steam, the rise and fall of the hammer is attained, while the whole active part of the apparatus, consisting of a cylinder, and the hamme of wrought-iron in its various branches. Simple in principle, yet powerful to an extraordinary degree, and capable of being managed with the mos

There are occasionally to be found hardy men, who are singularly indifferent to responsibility, and especially when that responsibility is incurred to an inert body of shareholders. Such seems to be the character of the directors of the Reversionary Interest Society, if we may judge from the bold and unprecedented step which they have taken in the discharge of their solicitor, without a hearing, after twenty-two years spent in the service of the shareholders! Had it not been for the advertisement of Sir George Stephen, which appears in our columns, we should have inferred that criminality of no ordinary description had been the secret motive for such a step, and that this motive was humanely veiled from the public eye; but, what will our readers think of it, when we explain that this arbitrary and tyrannical measure is vindictively taken, to punish the learned gentleman for his faithful protection of the interests entrusted by the shareholders themselves, under seal, to his special care? We never before heard or read of an act of cruel injustice of the same kind being perpetrated with such unblushing effrontery. Sir George is well known to be an eminent man in his profession, and has distinguished himself out of it by the energy and firmness of his character; he projected the Reversionary Society twenty-two years ago, and was appointed the solicitor to this client of his own creation, by the Deed of Settlement; last year he was instructed to obtain an Act for its incorporation, and counsel prepared the bill, giving enlarged powers to the shareholders; it seems that this was unpalateable to the directors, and, without any scruple, they crased the clauses, leaving their constituents to take care of themselves; but they forgot that those constituents were also Sir George's clients, and, consequently, in safe keeping; he very properly apprised some of them of what was going on, and they very summarily throw the bill overboard, for which the directors have, as summarily, thrown overboard Sir George himself! Yet the whole of his conduct has been vindicated by the opinion of such high legal authority as the late Attorney-General and present Chief Baron, Sir Frederick Pollock; and will, doubtless, be equally vindicated by the shareholders whom he has so resolutely protected.

We have had some experience in bold and unprecedented step which they have taken in the discharge of their solicitor, without a hearing, after twenty-two years spent in the ser-

We would call the especial attention of our readers to the Report of the Mexican Company, which appears in another column of our impression. Instead of being a losing, or rather ruinous, concern, as it has ever hitherto appeared, it now assumes a position at once satisfactory and promising. A clear profit of \$11,483, after crediting the directors \$2500, presents itself on the past year, and this, with the former year's balance of \$1405, enables the company to pay a dividend of 7s. 6d. per share: while the balance-sheet of the Oaxaca ledger for the past year, shows a balance, transferred to stock account, of \$135,000—being an increase of 15m. on the balance of 1843. These cheering prospects, presenting so gratifying a contrast to the previous history of the company, are indicative of a still greater success, inasmuch as they were established in spite of circumstances calculated to have retarded materially the progress of the undertaking. The political and social disturbances which have characterised the entire Mexican Republic, had their necessary pernicious consequences on this company, as well as every other department; but, notwithstanding these simister circumstances, the company has not only progressed, but progressed so as to present an absolute profit, where, before, it had exhibited nothing but misfortune; and we are, therefore, warranted in anticipating a still more satisfactory advance in future. Shares, which, a few months since, were scarcely worth 10s. each, are now, we should say, well deserving a quotation of as many pounds, and should its hitherto appeared, it now assumes a position at once satisfactory and proranted in anticipating a which a few months since, were scarcely worth 10s. each, are now should say, well deserving a quotation of as many pounds, and should success still continue increasing, as we anticipate, their value will should success still continue increasing, as we anticipate,

Original Correspondence.

ON THE POSITION AND PROSPECTS OF THE IRON TRADE OF

GREAT BRITAIN.

Etas de daro est ultima terro. - Oriel Met.
Sir, — It is not without considerable reluctance that I now trespass on our columns, but misapprehensions having arisen, in various quarters, with regard to the prospects of the iron trade, in the absence of more elaborate information, I feel it incumbent upon me, as having bestowed considerable attention upon it, to do what I can, in a brief space, to place the matter, in what I conceive to be, its proper light. I assume that your readers are aware of the recent extraordinary re-action in the Scotch pig readers are aware of the recent extraordinary re-action in the Scotch pig market, and that the original cause was the short-sighted policy of the makers, who have disposed of their produce in anticipation for nearly the whole of the year, and recognised the various sales by transferable accepted orders or scrips; and these scrips have been brought into the market and repeatedly sold, as though the representatives of iron actually in existence: men with an utter ignorance of the trade became enchanted with these "fatal facilities" of speculation, and, regardless of the warning of the satirist, "Alas! what dangers do environ The man who meddles with cold iron,"

The man who meddles with cold iron,"

boldly entered into extensive engagement, for future deliveries, and, with
an equal precipitancy, sought to get rid of them, at almost any sacrifice,
upon the first appearance of duliness in the market. Great danger of a
similar crisis must always exist where—borrowing a phrase from currency
writers—the paper in circulation is not founded on a metallic basis, and
considerable difficulty will now, I apprehend, be experienced in restoring
matters to their proper position.

"Reveare gradus—bic labor, hecous est."

Revocare gradus-hic labor, hoc opus est.

"Revocare gradus—hic labor, hoc opus est."

It is to be hoped, however, that when the prospects of the trade are more fully developed and confided in, men of real capital and stability of judgment will come forward as purchasers, and hold the scrips, until the pigs they represent are, from time to time, swallowed up in the usual course of consumption; or the Scotch ironmasters themselves should relieve this disreputable state of the market by buying back these prospective delivery orders, with the money they have so illegitimately obtained for them, and thus retrieve the error they have committed. Although the cause of this re-action—speculative pigs being sold at 30s, per ton below the maker's price—is thus acknowledged, the effect of the temporary despondency has been, to give rise to various rumours and speculations with regard to the stability of the trade in general, unfounded indeed, and sometimes ludi-crously absurd, but which, simply from their constant iteration, may acquire undue importance, unless timely exposed. I am, however, in hopes that the facts and arguments derived from statistics, which I shall now adduce, will enable any person, tolerably conversant with the trade, to form a pretty accurate opinion of its future position and prospects.

I estimate the average annual make of the kingdom, for the past few years, as 1,333,000 tons of crude iron. I calculate, that of this 459,000 tons was foundry iron, and 878,000 tons forge, the latter representing, in its manufactured results, 601,000 tons of malleable iron, which, with the foundry pigs and castings, gives a total of 1,053,000 tons leaving the manufacturers' hands.

Taking the exports of the year ending Jan. 1, 1844, as a basis (the returns not being compeleted for last year), we shall find that they show

manufacturers' hands.

Taking the exports of the year ending Jan. 1, 1844, as a basis (the returns not being completed for last year), we shall find that they show 182,000 tons of foundry pig, castings, and hardware; and 293,000 tons of wrought iron (including tin plates)—together 475,000 tons, leaving for home consumption 270,000 tons of foundry, and 308,000 tons of wrought iron—total 578,000 tons. I have no objection to add 80,000 tons per annum of wrought-iron and castings, representing about 100,000 tons of crude iron, in estimating the make of the present and succeeding years, though I am not of opinion that such an increase will accrue for a longer ammum of wrought-iron and castings, representing about 100,000 tons of crude iron, in estimating the make of the present and succeeding years, though I am not of opinion that such an increase will accrue for a longer period; this would bring the quantity of available iron for home consumption, on the foregoing basis, up to 658,000 tons; but it is an important fact to bear in mind, and one that simplifies the consideration of the subject most materially, that it is only the estimated increase of 80,000 tons that need much occupy our attention. I think it will be at once admitted that, comparatively, no very considerable stocks of iron accumulated in the country, beyond those usually requisite, during the past five years, an era generally of extreme depression in almost every branch of manufactures and commerce, and when the annual construction of railroads here did not exceed 150 miles—whereas in future the average make of railroads seems likely to be seven times that quantity for this country alone, without estimating the demand for similar projects for those countries which had not hitherto commenced them—viz., Spain, Portugal, Italy, India, Canada, &c., but which are now compensating for their former lethargy; and which may be left as a set off against any possible falling off of our exports to other countries, in consequence of the advance of price. This last surmise, however, I conceive to be unsustained by former experience, and at variance with the results of a careful consideration of the manufacturing position and extended wants of our several customers; and it will be perceived that our exports are so well diffused, that any, even considerable, falling off in some of the estates, would not materially affect the whole. I will here annex a short summary of our bar and rail customers in 1843, as exemplifying this:—

Russia	East India and Ceylon Tons 23,587
Denmark 10,895	China 4,645
Prussia 12,147	Australia 2,432
Germany 15,647	Canada, &c 7,012
France 4,532	America 21,457
Portugal, Azores, and Madeira 7,240 Italy	Sundries 42,743
Turkey and Central Greece 3,561	Total 198,773

Turkey and Central Greece ... 5,561

Turkey and Central Greece ... 5,561

At the moment of writing this, I have not access to the detailed returns of the exports of pig-iron, &c., for that year, or I should have preferred giving the particulars of those also, to complete the view.

With reference to the quantity of British and Irish railroads now decided on, it is difficult, in many instances, where the length is not stated, to arrive at an accurate knowledge of it; but, upon a near estimate, I find that the Board of Trade have passed, and virtually agreed to by postponing (the latter forming but a small proportion), about 3200 miles of railway; and this is independent of 600 or 700 miles, for which prospectuses have been issued this year, and which seem likely to be further added to. We must also take into account 797 miles, for which acts were obtained last session, and for which, although some of the rails were secured last year, they were almost entirely to be made this year; or, otherwise, the foreign rail contracts, standing over from last year unexecuted, will more than counterbalance any proportion of rails for this 797 miles, which could have been made prior to 1844. I will, however, in my estimate of probable demand for our railroads, during the next four years, only assume a construction of 4000 miles, leaving, therefore, out of the question, the recently, or, in future, projected lines.

English, Scotch, and Irish roads, 4000 miles, at 270 tons per mile, (including

The second second	English, Scotch, and Irish roads, 4000 miles, at 270 tons per mile, (including rails for partings, stations, and stock	1,080,000 320,000 520,000
	Total for Great Britain and Ireland	2,080,000
-	Spanish and Portuguese lines projected, and chiefly arranged for, about 1000 miles, at, say, 350 tons per mile	350,000 105,000
П	The second secon	

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I have left India out of the consideration, where it is stated, on good authority, that the East India Company are planning a system of lines of immense extent; or Canada, where a railroad of some length is contemimmense extent; or Canada, where a railroad of some length is contemplated, or the increased demand from any of those countries, whom we have hitherto supplied with iron for their roads, and where the great extent of projected new lines has been already made so public, as to prevent the necessity of dwelling further on the matter. Italy has lately applied, in England for upwards of 20,000 tons of rails, and Germany has purchased of us, for delivery early in 1846, at 135.5s, per ton in Wales, being a considerable advance on current rates. The large additional quantity of pig-iron required for France is a matter of notoriety, as well as the prospect of the duty be taken off there; but the effect of this we can also afford to omit.

Total

prospect of the duty be taken on there; and afford to omit.

With reference to the improvements in Spain, the following extract from the speech of the Minister of the Interior, as given in the Journal des Chemins de Fer, of the 26th current, will be interesting, showing the animus which is likely to impel them there, and that the railroads are not only projected, but contracted for extensively, by responsible French and

English houses, with a prospect of much greater progress:—"On a parlé de chemins de fer, ch bien! je me félicite de cette occasion d'annoncer à la nation, du haut de cette tribune, que l'établissement de ces chemins de fer, qu'on regardait il y a quelques mois en Espagne comme un rêve, s'est déjà converti en une espérance des mieux fondées. Des maisons respectables de France, d'Angleterre et de Belgique, dont le crédit nous est officiellement garanti par nos ambassadeurs, nous ont fait des propositions fort importantes pour la construction de chemins de fer, offrant de déposer en garantie des sommes considérables." Then, after alluding to the Madrid and Saragossa, Pampeluna and the French frontier, Madrid and Cadia, Aviles and Leon, lines, he adds:—"Il y a encore plusieurs autres compagnies qui nous ont présenté aussi des propositions." And, in the same journal, of the 15th of March, it is stated—alluding to the line between Madrid and Cadix, contracted for by the Paris firm of Luffitte and Blount—that all the materials may be imported free of duty. Hitherto, the consumption of English iron in the Peninsula has been quite insignificant, the duty on importation being enormous.

the consumption of English iron in the Peninsula has been quite insignificant, the duty on importation being enormous.

It has been asserted, and with apparent plausibility, that the great increase in the price of iron will have a most injurious effect on our exports; in answer to which it will only be necessary to appeal to the statistics of those years when prices approximated to the present, and a nearly similar position of the trade was exhibited—viz., a sudden and extensive rise, after long-continued depression. Annexed is a table of exports during 1834-5-6-7-8 and 9, and the average annual prices of merchant bar-iron (as a criterion), taken from Messrs. Jevons's highly useful circular of February last, issued from Liverpool:

Exports of iron.

Average prices of merchant bar-iron

Average prices of merchant bar at Liverpool.

About £7 5a, per ton...£6 5a, to £8 5a. £10 10s to £11 10s. £10 5a, £7, to £9 15s. £9 10s, to £9 10s. Exports of iron. 208,000 271,000 270,000

during an average of very fair prices—in Wales, Staffordshire, and Scotland; a letter from an ironmaster in the latter district, written lately, states—"We are now getting back the capital, we have been handing over to the public for the last few years, for the prices realised then did not meet the cost of production, and it will take a long continuance of good prices to offect this." With reference, also, to foreign works, it will be found that a considerable advance of rates is equally requisite with ourselves. Very heavy losses have been sustained in iron-making of late years abroad, and it is notorious that, in 1839, a year of very remunerative prices here, the Belgian iron-works were in a deplorable position.

It was my intention here to have summed up the various facts and arguments adduced in this letter, and to have pointed out what a wide margin remained, without much affecting the deductions, for any inaccurate or over-sanguine estimates; but the great length this has reached, warns me to desist. Enough, however, has, I think, been urged, to prove that the iron-makers are warranted in making a stand for such a scale of prices, as will enable them to provide for the heavy advances of wages, obtain a liberal profit for their current manufacture, and reimburse themselves for the losses of past years.

THE IRON TRADE.

TO THE EDITOR OF THE THES.

Sur,—The remarks contained in my former letter, which you found room for in your columns last month, seem to have made some impression upon the miads of the speculators in iron, while the trade itself has run counter to my sentiments, and, as if determined to do itself the utmost injury, fixed a rate of prices which they cannot expect generally to obtain, as the consumer cannot afford to pay it. From the observations in high places, as well as the changed tone of the Mining Journal, I doubt not the truths I advanced will sink yet deeper into the general mind, and lead eventually to those desirable results which are involved in the maintaining and securing a lengthened, steady, and preditable trade both to the consumers on the one hand, and to the ironmasters themselves on the other. Shortly after the appearance of my letter, a correspondent of the Mining Journal set forth a statement to show that the actual requirements for the present and ensuing year will exceed the power of supply by the enormous amount of 500,000 tons in each year. If this position should at all approach the truth, then, indeed, the whole of the sudden and enormous advances are truly and firmly based; and it becomes, therefore, a question of some moment, and worthy of examination, how far such a view may be relied upon to govern the judgment and determine the price. Without fear of contradiction, and appending my proofs, I venture the assertion, that it is one of the most common, as well as one of the easiest, operations of an active and sanguine intellect to set forth statements in figures and base arguments thereon, which give internal evidence of interest, self-imposition, or ignorance of effects from given causes; but which, if as put by the writer alluded to, from their serious and startling character, and the enormous deficiency of supply prognouticated by him, are apt to lead away the sober judgment, so that the dream bears the full appearance of a reality. From these causes, the effect up

The make of pig-iron for England and Wates in 1844 was	
Add increase for 1845	
Total probable make for 1845	1,330,000
For 3900 miles of railway contracted for, 1000 miles for 1845, and 1000 miles for 1845, and 1000 miles for rails	250,000
Add lost, one-fifth, in conversion from pig-iron into rails. Add for chairs for 1009 miles. Ditto, for loss in manufacture.	70,000
Iron for railways in progress and passed in the session of 1844 Iron for waggon, its., computed from impectors of railway companies secounts 200 tone per mile, for 1000 miles	est Cae
	200,000

At the first glance this statement appears clear, reasonable, and just; but it is obvious, upon examination of the actual tatte of the prospective demand, that it must be taken into the account that of the very numerous public works now propounded and submitted to Parliament, comparatively few will obtain the sanction of the Legislature in the present session, many already are defeated on the Standing Orders, rivals destroying each other, and others merely get up as the ground for gambling and specialition, which are never intended to be completed, whilst those which shall have the good fortune to obtain their of interests in railways is only commencing, existing lines using every effort to protect themselves from future competition, new lines rivalling each other in every direction; so that all the precautions taken by the House of Commons in the last session to prevent unnecessary and extravagant expenditure in the needful preliminary inquiry into the meetits by the power given to the Board of Trade, hoping thereby to moderate and check an acknowledged and dreaded every the present aspect of the several hostile parties, the expenditure of this year will exhibit an amount altogether, rendered nugatory; and, judging from the present aspect of the several hostile parties, the expenditure of this year will exhibit an amount altogether frightful, and which no former time could display, dissipating a good portion of that loose capital invested by many persons too eager to engage in new schemes, and which so many new-fledged directors will not hesitate to spend, seeing that as small a proportion of the deposits comes out of their own individual pockets. If, therefore, we are to become blind to the facts that the great public works, such as are admitted to proceed, will extend over a series of years, giving time and opportunity for the supply not being condensed in the way set forth in the preceding calculation,—If we are to allow that the effect of high prices is to narrow consumption, diminishing the power to purch Making the annual deficiency to be 473,500

Total	1,330,000
Assuming that 2000 miles of railways will be necessary, the more reasonable period for completion would be four, and not two, years, which, at 250 tons per mile for 500 miles, would take for 1845	125,000
For loss in manufacture, 5 per cent. Iron for railways already contracted for should not be allowed, as it is provided in the above, and the stack held should meet it.	
Iron for waggons, &c., computed as approximating the weight of rulls and chairs Export for 1844, computed at 460,000 tons, being reduced to one-half from enor- mous prices encouraging foreign make, and otherwise from foreign inability to buy, already proved in the first three months of the year (see the diminished	-
weight entered from the different ports), making the whole quantity only The general consumption of the home market (exclusive of rallways) in bars, castings, &c., diminished one-third from high prices, other materials being	230,000
substituted for iron; estimate of 1944, 480,000 tons, one-third off	320,000
Grand total consumption	886,700 1,330,000

cover inflaential journal has adopted enlarged and extended views upon these things. I leave it, therefore, in your powerful hands.

April 21.

Str.,—In the Times of Saturday last is a long letter from "Justus," which chiming in as it does with those lugularious warnings which have lately been given from a higher quarter, derives a weight which it would not otherwise carry. If the writer had confined his observations to a correction of the supposed errors in the Mining Journal to which he refers, I should have been in climed to give him credit for disinterestedness, whatever I might have thought of his accuracy; as it is, I am tempted to doubt both. To take his two objections:—I. Over speculation. That a great deal of money will change hands in the purchase and sale of railway shares, is most true—the greater part of this evil, if evil it be, has happened already—more will certainly take place. But it never seems to have occurred to the alarmists on this subject, that there is this great difference between 1825 and 1845—that in the former year any project, however monstrous or improbable, which entered into the head of any person anxious to have a secretaryship, or of any solicitor anxious to have a joint-stock client, was hurried into existence and operation, at the mere will of these two parties, under the colour of protection from the names of persons as directors, but who were in truth either their tools or their dapes. Whereas, in 1845, in the instance of railway companies, the experience of 1825 has forced upon projectors the necessity of having as directors, men of respectability, wealth, and business knowledge—the necessity of Parlamentary notices, and the expirity of a certain amount of time before anything can be done—the preliminary inquiries by the Board of Trade—the preliminary inquiries by the committee on the bill)—and, finally, the discussion of the House of Commons (the standing orders committee, and the committee on the Bill)—and, finally, the discussion of the Bill in the house, which are all 1,330,000 tons.—But he quarrels with the amount of consumption there stated upon two grounds—1st, that all the railways in project will not be authorised, and if they are, their consumption will go over a period of four years, and not two;—2d, that the exportation and home consumption will be curtailed in consequence of the great rise in prices. To take the second of these first, I am inclined to think there is much truth in this objection. It seems probable, to say the least; and if the knowledge and disinterestedness of "Justua" were as undoubted as I think they are both suspicious, I would be inclined to admit the objection to the full extent to which he states it. However, I will against my inclination do so.—The consumption for exportation thus reduced, he states at 230,000 tons; home consumption at 320,000.—"Justua's" other objection, however, is founded on a palpable blunder, for the items are all evidently upon existing contracts, which must be carried out, whether the railways are and to rised or not; the whole of the contracts, however, which relate to railways not yet authorised, have been, I believe, made by companies who are as certain to get their bills as anything can be which has not actually happened. These items, therefore, are not subject to "Justua's" deduction, and must stand as in the Mising Journal. Their aggregate is 282,500 tons. The consumption, therefore, for 1845, even allowing to the full extent, "Justua's" deduction for exportation and home consumption from rise in price, will be 1,873,500 tons; and more than the make of that year, by 45,500 tons—leaving out of the account the increased consumption to be created by railways which have yet to be authorised, or which the projectors have not felt so sure of being authorised as to hazard previous contracts.

A Shari HOLDER.

THE LATE EXPLOSION AT WEST MOOR COLLIERY.

Sin,-In your excellent Journal of the 26th inst., I observe a letter from

THE LATE EXPLOSION AT WEST MOOR COLLIERY.

Sin,—In your excellent Journal of the 26th inst., I observe a letter from a "Looker-on," commenting upon the late unfortunate accident at West Moor Colliery, and also roviewing generally the condition of the northern coal mines. I apprehend there can be no right-thinking person, who will not at once agree with "Looker-on" by these explosions; and were geientific men, like himself (as he evidently is), seriously to consider the subject, it have no doubt that much good would arise. I cannot, however, but regret that "Looker-on" has marred the effect of many of his well-intentioned observations, by a style of writing, calculated rather to excite temporary feeling, than to treat the subject in that calm and dispassionate manner, which its importance so much demands. As regards the "West Moor inquests—the jury having returned a verdict, that the explosion was purely accidental, I think should be satisfactory to every reasonable mind, and I feel greater confidence in stating this, as it cannot be unknown, that coroner's juries in the present day are not disposed to hurry over inquests, with that "indecent haste" insinuated by "Looker-on"—it is only now sary to refer to a recent calamity at Mesars. Samuda's works, when a verdict of "manulaughter" was returned against the engineer; and other cases might be adduced. Every superintendent of a mine is fully alive to the fearful responsibility devolving on him, and that he is liable, should any neglect be proved, to be indicted for manulaughter. There is only one point in connection with the "West Moor inquest," which requires to be remarked upon—it is respecting the use of the Davy lamp in the "headways." "Looker-on" observes, "in a current which, to blow out a candie, must be five or six miles per hour, they use a Davy lamp, which house the fame in a current of three miles per hour, in the rest of about two and a half miles per hour, in the rest of about two and a half miles per hour, in the first ham of explosive atmosphere, wa

tions respecting the style and composition of this answer might, I think, have been spared; doubtless, there are men, even amongst the coalowners, who can write intelligibly—higher authority than a "Looker-on," has stamped this answer with a different character.

The great question, and it is one certainly of much difficulty, seems to be the sinking of additional shafts. I am here compelled to observe, that the data which a "Looker-on" has assumed, in reference to this important subject, are incorrect, and without foundation, and, consequently, his conclusions are erroneous. He states, "had the Murton and Huswell owners previously bored, they might have ascertained the condition of the subjacent strata," &c. At the Murton Colliery, where the expenses of sinking were nearly three times as great as at Huswell, a bore-hole was put down, previously to commencing sinking operations, and the result, upon sinking, only proves how little information can be gained by such an exploring. Perhaps a "Looker-on" is not aware, that the great difficulties to be overcome in sinking arise from large feeders of water, the quantity of which cannot be ascertained from a hore-hole. I feel surprised that his "geological" knowledge should not have taught him this vary simple fact. Again, the three large pits at Murton, or Dalton-le-dule—which, by the way, he mis-states as two distinct collieries, in his haste to arrive at conclusions—were not sunk for purposes of ventilation, but solely for the application of engine-power, to pump the enormous feeders of water; his conclusion, therefore, "that the coal-trade reporters would have shrunk from this expense," carries with it its own refutation.

The next "fact," that "shaffs are generally sunk, on an average for 15t. or 16t. per fathom," resembles the case of a builder, who, on being requested to furnish an estimate for a dwelling-house, made his calculations for the labour only, forgetting that the materials must be purchased. The sinking of a coal-pit is a parallel case; and I beg to st

STRAY PARK MINES-MR. HUMPHRY WILLYAMS.

Your remarks, in the Mining Journal of last week, may appear to th who are ignorant of the circumstances very conclusive, as affecting the racter of Mr. Humplary Willyams, who, it would appear from the repres racter of Mr. Humphry Willyams, who, it would appear from the representations made, has been guilty of misconduct, such as no honourable man could bear under. He will, doubtless, write to you, and his letter may produde the necessity of the insertion of this hurried scrawl; but, having an intimate knowledge of that gentleman, I cannot allow, for a moment, a stigma to be attached to his character, which I feel satisfied he does not deserve. It would appear, that the adventurers in Stray Park and Camborne Vean Mines are smooyed, because Mr. Humphry Willyams took to himself the adjoining set of Wheal Francis. Now, in this I can see no ground for complaint, inasmuch, that if the Stray Park adventurers would have fairly worked the sett, and applied a sufficient capital to such purpose, I do not, for one moment, believe that Mr. Humphry Willyams would have thought of taking the sett; and, as it is, I would ask these gentlemen, whether they have any grounds for saying that they are precluded from taking an interest in the mine, because, I am satisfied, that gentleman would be gladof their co-operation? I have only, in conclusion, to express my firm conviction, that Mr. Humphry Willyams is a gentleman far too honourable—perhaps, more so than those from whom you acquired your information—to be guilty of any act which might reflect on the character of Cornwall, which, I hope, will ever be sustained and maintained by

[In noticing the letter of our correspondent (who does not, however, give

which might reduce the second of the control of the

* Dr. Turner's analysis of fire-damp, from e even seams of ecal, in Northumberias and Duth ur.,—Transactions of Natural History Society of Newcastle upon-Tyne, 1836.

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Mining Correspondence.

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ENGLISH MINES.

Appel 28.—At Wheal Marquis, we have made but little progress in the seventy fathon level cross-on translation of good or have been met with, the which are very kindly, and justify the most sanguine expectations. The look in the fifty-sigh fathon level sands it to feet wish, composed of gap, amolei, and too; there has been met with the which are very kindly, and justify the most sanguine expectations. The look in the fifty-sigh fathon level west the look is about eighteen inches with, composed of spar and manufic, with stome of or in place; the look in the stepes, in the bottom of this level sart, is two feet with, and worth 155, per fathon. In the look of the stepes, in the bottom of this level sart, is two feet with, and worth 155, per fathon, in the look of the step sart and the step sart and the sart and the step sart and the sail keep on the sarposed juscient. In the shart on one of the newly-discovered looks the look is three and a half feet with, compared of Wwwighted at Morrodham, or Fiskly state, March ore; 111 tons 16 with 2 gar, and sampled April ores, compared 160 tons.

April 26.—We have to Goy with the wall of North Timerott look; in the saveying fathon level cross-cut from flat-rod shalt, but, of course, cannot yet say anything of its quality. English bed in any text the wall of North Hierortt look, in the saveying fathon level to save the sart and wall from the cross-cut, by eight mon, at 40 per said the look shall be with the said of North March 160 per fathon level to said to the said the said the said of the said the said to the said the said the said of the said the said to the said the sai

ore assayed at Tavistock, and it produced 9 in 20 for lead, and 8 oz. of silver to the ton.

ROLMBUSH MINING COMPANY.

**April 29.—In the 120 fathom level, west of ross-cut, the lode is ten inches wide, and worth 5l. per fathom; in the cross-cut south the ground still continues more favourable. In the 110 fathom level, west of Hitchins's shaft, the lode still continues to improve, being two feet wide, and worth 40. per fathor; in the stopes in the back of this level, east and west of Michell's winze, the lode is fifteen inches wide, and worth 18l. per fathom; in the stopes west of Goldsworthy's winze the lode is ten inches wide, and worth 8 per fathom; in the stopes west of Lobb's winze the lode is fifteen inches wide, and worth 20l. per fathom; in the stopes west of the sump winze the lode is two feet wide, and worth 88l. per fathom. In the 100 fathom level, west of Hitchins's shaft, the lode is one foot wide, and worth 5l. per fathom level the lode is fourteen inches wide, and worth 15l. per fathom. In the ninety fathom level, west of Hitchins's shaft, the lode is one foot wide, and worth 5l. per fathom; in the stopes in the back of this level the lode, and worth 5l. per fathom; in the stopes in the lode is one foot wide, and worth 5l. per fathom; in the stopes in the back of this level the lode is eighteen inches wide, and worth 26l. per fathom. In the fathy-thom level, west of Hitchins's shaft, the lode is one foot wide, producing good stones of ore. In Bray's shaft the ground continues fathom: We weighed at quay, on Friday last, March ores, 194 tons, and sampled Aprilores, computed 189 tons.

T. Richards.

HAMSON MINING COMPANY.

April 28.—In the fifty-four fathom level west and the forty-four fathom level east the lode is small and amproductive. In the thirty-one fathom level east the lode is six inches wide. We have put the flat-rods to work to-day to draw the water from Garden shaft with the augine, and shall sink it at once; the engine-house at Treza will be finished this week.

CORNUHAN MINING COMPANY.

April 28.—The lode in the eighty-aix fathom level, going west of Marray's engine-shaft, is worth about 23t per fathom. In the pitch working over by eight men from the bottom of the seventy-eight fathom level the lode is two feet wide, and yielding rich work; in the eastern end at this level (eighty-six) Chiverton lode is fifteen inches wide, six inches of which is saving work. The pitches working on the north lode, at the seventy fathom level, by fourteen men, are not looking so well as noticed in last week's report. The computed thirty-three tons of lead, ore, sampled on the 18th instant, is purchased at 14th. 8s. 6d. per ton (21 cvts).

inches working on the north lode, at the seventy fathom level, by fourteen men, are not looking so well as noticed in last week's report. The computed thirty-three tons of lead ore, sampled on the 18th instant, is purchased at 14.8s. 6d. per ton (21 cwts).

R. Rows.

**April 28.—In the 145 fathom level the lode is small and poor. In the 185 fathom level the lode is two feet wide, composed of capel and ore. In the 125 fathom level the lode is one foot wide, saving work. In the 115 fathom level the lode is one foot wide, saving work. In the 115 fathom level the lode is again disordered by slide courses. In the nincty-five fathom level the lode is significant with some ore. The seventy-five fathom level the lode is significant level the lode is significant level the lode is six inches wide, composed of can, with some ore. The seventy-five fathom level is in slidy ground. In the sixty-five fathom level the lode is three and a half feet wide, very promising work. In the winze rising in the back of the fifty-five fathom level the lode is nine inches wide, unproductive. The incline plane shaft is sunk eighteen fathoms below the eighty-five fathom level on the incline. We hope to sample, on Thursday, the last of May, 115 tons of rich silver-lead ore. At North Tamar the sumpmen are still engaged cross-cutting east. In the fifty fathom level the lode is two and a half feet wide, composed of capel, can, and ore, good saving work. In the forty fathom level its suspended for the present in order to sink a winze. At Wheal Hancock the shaftmen are engaged fixing a lift at the thirty-seven fathom level its suspended for the present in order to sink a winze. At Wheal Hancock the shaftmen are engaged fixing a lift at the thirty-seven fathom level, the ground is favourable for driving.

CALLINGTON MINING COMPANY.**

**April 28.—I beg to inform you, that we have made the necessary preparations for a ninety fathom level at the north mine, and are now cross-cutting towards the lode, in a soft and congenial channel of ground,

The lode in the thirty, fathom level, east of Henwood's shart, is line in cines wide, composed of soft spar, mundic, and a small quantity of black and yellow ore.

TRELEIGH CONSOLS MINING COMPAINY.

April 25.—In the seventy, west of Good Fortune, the lode is two feet wide, kindly, with stones of ore; in the seventy, east of ditto, the lode is eighteen inches wide, without mineral. In the sixty, west of ditto, the lode is five feet wide, two and a half feet ore, worth 30L per fathom; in the sixty, east of ditto, the lode is two feet wide, producing stones of ore. In the fifty, west of Symons's, the lode is four feet wide, eighteen inches ore, worth 12L per fathom; the cross-cut, north from Symons's, at the fifty, is intended to cut North Goodman's lode, to which we have about thirty fathoms; this lode has not been seen below the shirty fathom level, and that 100 fathoms east, nor seen below the adit in this part of the mine; eastward it has been very productive. In the forty-four, west of ditto, the lode is eighteen inches wide, havourable appearance, but little mineral; in the winze, below the forty-four west, the lode is small, but in the fifty under it the lode is large, and of fair quality. In the thirty-four, west of ditto, the lode is sone foot wide, with some ore. In the winze, below the adit, the lode is one foot wide, with some ore. In the winze, below the adit, the lode is one foot wide, poor, Garden's shaftmen are in this end till required for the shaft. We are sorry it is not in our power to say when the new engine will work, as we have experienced so many disappointments; the engineer says he cannot get the work from the foundry, and we know they are very busy, still we think they were not ordered as soon as they ought to have been; our shaft-work has been ready a fortnight. W. Richards. W. Symons.

as soon as they ought to have been; our shaft-werk has been ready a fortnight.

W. RICHARDS. W. SYMONS.

LEWIS MINING COMPANY.

April 29.— We have commenced sinking Kusksy's engine-shaft under the thirty-two fathom level, ground favourable. The lode in the thirty-two fathom level west is ten inches wide, with good spots of yellow ore. The lode in the twenty fathom level west is twenty inches wide, producing good quality stones of grey ore, and very promising; we expect to hole the winze at the twenty fathom level, on the north lode, in a fortnight, where we expect to set some tribute pitches. We are also preparing the flat-rods to work on Wheal Providence lode in the eastern part of the mine. At Wheal Nutt we have sunk the engine-shaft mine fathoms under the twenty fathom level; lode is just come in the shaft, and is twenty inches wide, with some good stones of work for tin. The lode in the twenty fathom level east is two and a half feet wide, composed of spar, mundic, and spots of ore—a very promising lode; the lode in the twenty fathom level end east, is ten inches wide, producing some good work for tin. The north lode, in the twenty fathom level end east, is ten inches wide, producing some good work for tin. The north lode, in the ten fathom level end west, is eighteen inches wide, yielding some tin—a very promising lode. The ten fathom level end east, at the same level, is set at a tribute of 10s. in 11. for tin. In the winze under the ten fathom level, on the north lode, we are raising some good quality work for tin. We have set the carriage of the tin suff to the stamps at 4s. 6d. per 100 sacks (eleven gallon sacks).

FOREIGN MINES.

IMPERIAL BRAZILIAN MINING ASSOCIATION.

during the month, and also that 605 tons of West Cachoeira ores have been stamped, which sufficiently explains the low standard per ton.

Mine Report.—During the whole of January we were suffering from the effects of our December disasters; the water was only forked in the Bahu on the 28th, and the Bahu shaft, which was sinjured by the fall of stone, is not yet repaired, or rather the new-shaft which is to replace it in a more advantageous position is not ready. It is promised to be ready to morrow night.—at all events it will be ready in two or three days. This change in the position of the Bahu shaft will enable us to draw during a great many more fathoms sinking than shaft will enable us to draw during a great many more fathoms sinking than shaft will enable us to draw during a great many more fathoms sinking than shaft will enable us to draw during a great many more fathoms sinking than shaft will enable us to draw during a great many more fathoms sinking than shaft will enable us to draw during a great many more fathoms sinking than shaft will enable us to draw during a great many more fathoms sinking than shaft will enable us to draw the stone of building up this new shaft, it has been impossible to work the stopes underneath, test any timber or tools, &c., should fall on the people below. These circumstances have driven us to work the stopes in the upper part of the mine, which are, as they ever were, deaperately hard for boring, as Captain Verran states in his report: this is one principal reason for the small supply of ore from the United Mines. The new distribution of the working hours of the miners has likewise had its influence, but to what extent it succeeds cannot be ascertained at present: when the new distribution of the working hours of the miners has likewise had its influence, but to what extent it succeeds cannot be ascertained at present: when the new distribution of the working hours of the miners has likewise had its influence, but to what extent it succeeds cannot be ascertained at prese

BRAZILIAN COMPANY.

Cuta Branca, Fish. 8.—The small quantity of ore lately stamped, is owing in a great measure, to the carts out of the mine not having been properly filled from the want of stone to do so, which arises from the bast state of the handing power. Both hauling machines will be at work I hope in about ten days, and I also expect to be then in a position to begin upon the arches and high groung whon you may depend on the stampe being fully supplied. I defor till the mex's post addressing you more particularly in reply to your last letter.

Fish. 18.—In my letter of the 6th inst., I mentioned that I would in my next reply more particularly to your last. I now deeply regret to say, that the distressing account which I have to-day to give you, will make any detailed reply unnecessary. On Tuesday night, about 10 p.m., the mine below the deep adit was, I may say, literally destroyed by a fall of ground to an extent we shall never correctly ascertain; four lives were lost—the Englishman, John Odgers, jun,, and three negroes being at once huried to the bottoms, where they remain buried; two negroes were also much hurt; and this, wonderful, med with all thankfulness to say, was the extent of the injury incurred by those in the mine. Most providential indeed was it, that every creature was not killed; but a trifling warning only a moment before enabled all in the stalls (the relief corps just coming in) except the four unfortunate sufferers to run west; at the same time, there were twenty-nine people at work on the No. 6 bottoms under the arch; these were here left in a most perilous situation, and remained so for seven hours, as it was nearly that time before the spot they had taken refuge in could be ascertained, every light they had having been extinguished, and none could be got to them across the chasm (eleven fathoms) for a long time by the several means tried. At last, one was swung over in a kibble, in which, one by one, the men were brought away more dead than alive, and placed in safety. Here the t

Gold return for two weeks to 14th February, 9 lbs. 5 oz. 4 dwts. 17

Copper.

United Mines 22 35-6 12 60 60 60 036
Ryper's 12 7-6 08 60 60 60 038
Mancur's 4 16 25 40 60 60 038
Mancur's 5 2 71-7 Mining Report, from the 8th February to the 12th March, 1845.
It is much to be represted that the monthly copper productions should continue so low, and particularly so under the present financial state of the works. This circumstance is mainly attributable to a deterioration in the quality of Raipas ores, as alluded to, and in a great measure accounted for, in my last report. It is one of those fluctuations in mining that has been experienced on several former occasions, although not in an equal degree with the present. Theresult of our latter proceedings too fully confirms the deterioration in the produce of the Raipas lode to be denied; any further remarks on this subject would be merely a reiteration of the sentiments I have before expressed. On account of this month's delivery of Raipas ore to the smelting-house being confined to the smalls and second dredge, the best dredge and prills having been kept at the mine until a full cargo of each could be completed, the per centages are lower than they otherwise would have been.

**Maiposs—The produce of the stopes under shaft. No. I has deteriorated, and best dredge are found disseminated throughout the lode, which presents every indication that could lead us to expect an improvement at a deep level. The quality of the gream has any the deficiency; but hitherto, the prills and best dredge are found disseminated throughout the lode, which presents every indication that could lead us to expect an improvement at a deep level. The shallow level, driving westerly, has been extremely fluctuating, sometimes on a rich gossan lode, and at others so intimately mixed with soft clay and fragments of the adjacent strata, as to materially lessen its value. No decided limits to the lode, in any direction, have a say to been found; but so would have been seen as to enable us to resume our exploratory workings on a more extended scale.

**United Mines—A material i

from the back of the level on the back of the level on the back of the from the back of the b nave already been found. It was proposed to recommence some of the most promising stopes, but the quantity of ice and snow collected in the mine presented too great an impediment at this sovere season of the year, and it was feared that the advantage to be gained by the ore that might be produced would not remunerate the outlay in clearing the workings. We hope and expect that the ore producing from the old stulls will at least pay the expense incurred in picking them over. In the ore dressing department we are making every preparation to enable us to commence operations as soon as a thaw will admit.

S. H. THOMAS.

MINING IN THE EASTERN DISTRICT OF CORNWALL.

WHEAL MARIA.—This week's report mentions all the ends looking as well as ever; they have sampled upwards of 1100 tons. The adventurers are about erecting two powerful steam-engines on the mine.

erecting two powerful steam-engines on the mine.

GREEN VALLEY.—The steam-engine has been working about six weeks in the shaft, and levels are cleared up to the fifty-seven, which is the bottom, and preparations are being made for sinking the engine-shaft. Several rich bunches of ore, which are seen in the different levels, will be now taken away. A new lode has recently been discovered, which can be seen in the bottom level, by extending a cross-cut of six fathoms.

Wheal Victoria Mine, in the parish of St. Neot, about two miles west of West Caradon, is a very premising adventure, and was commenced early in

1844, since which period eight lodes of an encouraging character have been discovered, and can be worked efficiently by a comparative small cuttay. The facilities are of a most favourable description. A never failing stream of sater bounds the set on the east; and backs of upwards of sixty fathoms are obtained in driving the affil level. In driving the article was mall branchas of rich copper ore have been intersected underlaying into the main lode, which it is anticipated will be cut in a few weeks. The mine is divided into 256 shares.

It is anticipated will be cut in a few weeks. The mine is divided into 256 shares.

WHEAL ROBINS.—A considerable improvement has taken place here within the past few days; the ahaft which underlays on the course of the lode from the twenty fathom level is now sunk twelve fathoms under the forty-four fathom level, from whence some excellent stones of copper ore are now being raised, and as it is intended to sink to the sixty fathom level before they extend east and west on the lode, it is suiticipated, from present appearances, that a course of ore will be found. About 1090L worth of tin and copper ore has been sold since the commencement of the mine.

of ore will be found. About 1090t worth of tin and copper ore has been sold since the commencement of the mine.

WHEAL MEXICO.—This sett has lately been taken up, and whatever may be the results of operations in this district, where silver is the object of pursuit, this undertaking certainly presents fair prospects—a bunch of silver ore equal, as is stated, to any which has been previously discovered in Wheal Brothers or the adjacent mines, having been met with by a "pare" of tributers. No great value, perhaps, is to be attached to this discovery, as its extent or value has not been yet proved; it, however, affords proof of the mineral deposits of silver which are found to prevail in the neighbourhood.

WEST SHEPHERD'S MINE.—This mine, which has been lately resumed working, holds out favourable prospects. A water-wheel, thirty-two feet diameter by two feet in the breast, has been erected, and there is a constant supply of water, which is taken up from the adit. The requisite buildings have been erected at surface, with capstan, shears, whim, &c. The engine-shaft, which is in a valley running north and south, is sixteen fathoms from the surface. The main direction of the lodes is nearly east and west, being similiar to those of the Old Wheal Rose, or Shepherd's; they range from three and a half to four feet big; those which take the engine-shaft at 5 fms., will, in course of driving west, gives full forty fathoms of backs. In the bottom level west there is a good I ode of silver-lead ores; but the lode going east, although large, is not so rich as in the western end. A winze is in course of sinking in the bottom of the adit, about fifty fathoms east of the present end, where stones or rocks of ore, weighing, in some instance, 3 cwt. each, are found of good 'work." The two bottom ends are in course of driving with six men and six boys, and four men are also suking the winze. Upon getting down some fifteen or twenty fa homs deeper, it is confidently expected that the raisings will be very considerable. A meeting o

[To be continued in next week's Mining Journal.]

At a meeting of the adventurers in this mine, held at the office, Octagon, Plymouth, on Wednesday last, the 30th ult, Capt. Tony in the chair, the directors' report was read, which stated that the engine had been set to work on the 14th of April, and that the works were proceeding with the greatest satisfaction, that the ground continued favourable for sinking, and that the engine-shaft had been sunk since the 16th ult five fathoms two feet. The engine performed her work well, and if the ground continued as favourable as hitherto the lodes would be seen some months sooner than was at first expected. The future cost would be seen some months sooner than was at first expected. The future cost would be about 1L per 1-128th share per month, until the lodes were cut at the thirty fathom level, which would, however, be increased if operations were commenced on the other lodes. From the statement of accounts submitted for three months to the 31st March, it appeared, that the calls of 6L per share received amounted to 768L, while the expenses had been 330L 13s. 74d.—leaving a balance due the purser of 162L 13s. 74d. It appeared that the proprietor of Endrifton sett was willing to extend the grant from twenty-one to thirty-one years for 25L, and it was resolved, that the solicitors should immediately prepare the deeds in the names of three shareholders. The report was then received and adopted, and a call of 4L per share being made to pay the balance due the purser, and proceed with the works, thanks were yould be the chairman, and the meeting separated.

SUMMARY OF SALES OF COPPER ORE IN CORNWALL,

Date			vers		Aver.				Tons o	1.	Quar	. fir	ie.	Tot	tal	
184	5. Sale.	St	ands	rd.	Prod.		Prie	0.	Ore.		copp	per.		Amo	unt.	
Jan.	9-Redrutt	1 £	103	5	7.	 £5	5	0	2997		232	130		£15,777	15	6
**	23-Truro		105	9	71	 4	18	0	2842		206	8		13,951	17	- 0
10	30-Truro .		104	19	78	 5	6	6	3827		295	1		20,444	11	0
Feb.	6-Redruth	h	105	9	71	 5	- 8	6	4271		329	- 5		22,987	14	6
**	13-Ditto .		105	15	74	 4	15	6	2650		188	19		12,699	3	0
- 00	20-Ditto		93	16	91	 - 6	8	0	1884		-184	14		12,145	19	- 0
11	27-Truro .		106	14	7	 4	10	0	3265		227	13		15,319	10	6
	h 6-Pool		104	9	71	 - 5	9	6	4767		375	19		26,154	6	0
	13-Redruth	1	101	6	8	 5	7	0	2670		213	15		14,317	16	. 0
**	20-Traro .		95	1	9		12	6	3450		339	6		22,762	5	0
	27-Ditto .		108	15	6	 4	9	0	3264		215	16		14,496	12	0
	To	tals				 £5	12	9	33887		2809	19	4	£191,057	2	0

MINE ACCIDENTS.

Walmersley, near Bary.—While T. Beswick was at work in a coal-pit at Tottington, Higher End, part of the roof fell, and killed him.

Lane End, Staffordshire.—J. Booth (butty) was seriously injured by a fall of stone at one of Mr. Sparrow's Millfield Gate pits.

Bradley.—J. Etheriagton was killed by a fall of coal in Messrs. Scott and Foley's colliery; a fellow-workman (Wilkes) narrowly escaped a similar fate Maesteg.—A miner, named Roderick, was killed by a fall of coal.

Botton.—R. Schoffeld was killed by a fall of roof in a mine at Middle Hutton.

West Caradon.—J. Martyn was killed through the premature explosion of a blast; a comrade (R. Napp) was deprived of sight by the same calamity.

Linkinorne.—A miner was killed by falling down a shaft.

Killingworth Colliery.—The following sums have been obtained for the families of the sufferers by the recent accident at tha colliery. At West Moor, 111. 15a. 7\dd.; at the Parish Church, 91. 2a. 3d.; at Seatonburn, 11. 15a. 9d.; at Walker, 21. 7s. 9d.—in all, 261. 0a. 7\dd.

Swansea.—On Saturday last four men working in Mr. Strick's colliery were seriously injured by an explosion of inflammable air—one (W. Thomas) has since died. We have heard that much blame is attributed to the agent, for not sufficiently ventilating the drift in which the men were working, and we trust the coroner will investigate the truth of this report.—Swansea Journal.

The Late Explosion of Fire Damp at West Bromwich.—Two of the unfortunate miners, a man and a boy, who were burnt by the explosion of fire damp in a colliery near the turnpike gate at Hill Top, have died of the injuries they received. The other men who were injured by this melancholy catastrophe are, we hear, in a fair way of recovery. The incautious use of a candle in a part of the mine little frequented was the cause of the sad occurrence. The mine has since been thoroughly ventilated.—Wotverhampton Chronicle.

MEETINGS OF SCIENTIFIC BODIES DURING THE WEEK.

Royal Entomological · · · · · 17, Old Bond-street · · · · · · Monday · · · · · ·	8	P.M.	
British Architects 16, Grosvenor-street Monday	8	P.M.	
Chemical Society of Arts, Adelphi Monday	8	P.M.	
Medical Bolt-court, Fleet-street Monday		P.M.	
Linnsean Soho-square Tuesday	8	P.M.	
Horticultural	1	P.M.	
Civil Engineers25, Great George-street Tuesday	8	P.M.	
Society of Arts	8	P.M.	
Royal Thursday	84	P.M.	
Antiquaries Somerset House Thursday	2	P.M.	
Rl. Society of Literature 4, St. Martin's-place Thursday	3	P.M.	
Medico-Botanical 32, Sackville-street Thursday	8	P.M.	
Astronomical Somerset House Friday	3	P.M.	
Royal Institution Albemarle-street Friday	84	P.M.	
Philological	8	P.M.	
Royal Botanic Regent's-park Saturday	4	P.M.	
Mathematical Crispin-street, Spitalfields Saturday	8	P.M.	

MEETINGS OF PUBLIC COMPANIES DURING THE WEEK.

Works, at Eleven—Pacific Steam Navigation Company, at Twelve—High gate Archway Company, at One—Anglo-Mexican Mining Co., at One. Wednesdal.—United Canal Company, at Eleven. Thursdal.—National Provincial Bank of England, at Twelve—Aberdare Canal, at One.

Wheal St. Cleer, 4l. per share; Harrowbarrow Consols, 5s.; Trelawney Consols, 5s.

COAL MARKET, LONDON.

GOAL MARKET, LONDON.

MONDAY.—Price of coals per ton at the close of the market:—Adair's Main 15—Holywell Main 16—North Tanfield 13 6—Ord's Redheugh 14—Old Tanfield 14—Taylor's West Hartley 16 6—Tanfield Moor 17 6—West Hartley 17 6—Wall's End Hilds 16 9—Killingworth 16 3—Newmarch 16—Urpeth 16—Braddyll's Hetton 20—Russell's Hetton 19 6—Sewart's 29—Heugh Hall 17 9—Leasingthorne 18 6—Adelaide 19 6—Tees 19 6—Merthyr 27 6—West Hartley Netherton 17.—Ships arrived, 19.

thyr 22 6—West Hartley Netherton 17.—Ships arrived, 19.

WEDNESDAY.—Carr's Hartley 17 6—Holywell Main 16 6—Old Tanfield 14 6—Taylor's West Hartley 17 2—Townley 15.—West Wylam 15 6—Wall's End Braddyll's Hetton 19 6 to 19 9—East Hetton 17 6—Haswell 20 3—Hetton 19 9—Stewart's 20—Adelaide 19 6—East Hetton 17 6—Haswell 20 3—Hetton 19 9—Stewart's 20—Adelaide 19 6—East Hartley 17—Eastwis's Merthyr 21 6—Morgan's Stone 21 6.—Ships arrived, 23.

FRIDAY.—Carr's Hartley 17—Davison's West Hartley 17—Holywell Main 16—Old Tamfield 14 6—Ravensworth's West Hartley 16—Townley 15 6—Wall's End Bewicke and Co. 17 8—Gosforth 178—Killingworth 16 6—Wharnellife 17—Eden Main 18 6—Belmont 18 2—Braddyll's Hetton 19 3 to 19 6—East Hetton 17 3—Hawwell 19 6—Hetton 19 3—Lambton 19.—Rassell's Hetton 19—Stewart's 19 3—Whitwell 17 3—Caradoc 19—Heughhall 17 9—Scillot 18 6—Rible (re-shipped) 17 6—Adelaide 19 3—Barrett 17 3—Brown's Deascry 17 6—Cowndon Teels 17—Cowpen Hartley 17—Garnant Stone 22—Lewis's Merthyr 21—Sidney's Hartley 17—Weit Hartley Netherton 17.—Ships arrived, 57.

Current Prices of Stocks, Shares, & Metals. ENGLISH AND FOREIGN STOCKS.

STOCK EXC	LANGE, Saturday marning, Twelve o'ci
Consols, Money, 984 #	Russian, 5 per Cents., 1164 1174
ditto, Account, 981 1 Exchequer Bills, 57 59 pm.	Spanish, 5 per Cents., 301 4 ditto, 3 per Cents., 41 4
Belgian, 5 per Cents., 101 2 Danish, 3 per Cents., 88 89	Brazil, 5 per Cents., 88 9 Chili, 6 per Cents., 98 160
Dutch, 21 per Cents., 631	Colombia, 6 per Centa., 151 16 Mexican, 5 per Centa., 371 84
Portuguese, Conv., 5 per Cents., 67 68	Peru, 6 per Cents., 30 1

ditto, 4 per Centa, 971 4

Portuguese, Conv., 5 per Centa, 67 68

Portuguese, Conv., 5 per Centa, 67 68

Pertuguese, Conv., 5 per Centa, 67 68

LEEDS, Thursday.—The tone of depression which characterised the share market lass week is gradually disappearing, and prices are generally higher. The Direct Northern, having been thrown on its Standing Orders, has dropped to 34½, per share, and the Midland 40½, have, consequently, advanced to 19½, and the York Extensions to 17½. London and Yorks have also run up to 3½ pm., and though, as a through line, there is no hope for thom, perhaps their case is not so desperate, as to the portion between Lincolis and Yorks have also run up to 3½ pm., and the York and North Midland and Midland. The Manchester and Birmingham meeting, yesterday, went off to the entire satisfaction of the directors, and the party favourable to the London and Birmingham amalgamation; the only unfavourable feature of the meeting was the announcement of the factious lawsuft, commenced by the Grand Junction; as we apprehend that it will be pretty apparent, that this is a mere "fetch" on the part of Mr. Moss and his co-directors, we believe that the very gratifying conclusion of the meeting will have its proper effect in elevating the price of the shares. The repudiating gentlemen of the Sheffield and Manchester appear to have taken nothing by their motion, except bringing down the shares 10½. to 30½, and calling the shares. The publicating gentlemen of the Sheffield and Manchester appear to have taken nothing by their motion, except bringing down the shares 10½. to 30½, and calling the shares. The sum will be proposed to merge the Manchester and Buxton in the new company, on very favourable terms, we shall soco both "Frewash Valley" Railway towards London, and, as it is proposed to merge the Manchester and Birmingham interest, in support of the scheme, we have no fear of its success. West Yorks are at 88s. pm., Thirds at 70s. pm., West Ridings at 4½¢, Dewsburys 8¢, pm.; this last line may now be conside

COPPER ORES

Mines.	Tons	6		Pri	ce.	-	Mines. Tons		P	rice.	
North Roskear	103	***	£	2 8	6		South Caradon 40	****	£4 1	18 (1
ditto	102	****		14	0		East Wh. Crofty 119	****	6	0 €	3
ditto	98			14	6		ditto 74	****	4.1	3 0	
ditto	92		1	0	0		ditto 55		7	2 0	
ditto	. 86		. 6	6	6		ditto 54		. 5	3 0	110
ditto	85		. 6	0	6		ditto 45		7 1	0 0	1
ditto	84	****		11	0		ditto 20		6 1	2 6	
ditto	77		7	13	6	4 17	Longclose 28		6 1	8 6	
ditto	74			13	6	79 11	Dolcoath 97		3	7 6	
ditto	72	****	- 8	9	0		ditto 77		5	4 6	
ditto	68		- 5	5	0		ditto 58		2 1	5 6	
ditto	63	V	- 5	3	6		ditto 46		1	8 0	
ditto	62		7	17	0	1.34	South Wh. Basset . 88		3	8 0	
ditto	61		7	17	0		ditto 68		4 1	5 0	
ditto '	60		7	1	0		ditto 60		8	3 6	
ditto	47		7 6	13	0		ditto 28		4 1	6 0	
Consolidated Mine	es 90		7	1	6		South Roskear 58		5	3 6	
ditto	73		4	5	0		Wh. Chance 75		5 1	4 6	
ditto	70		4	19	0		ditto 74		5	6 0	
ditto	69		9	15	0		Fowey Consols 110	****	4 1	7 0	
ditto	65		3		0	1/1/10	ditto 91		4	7 0	
ditto	64		5	- 9	6	Jane	Wheal Vyvyan 66		1	9 0	
ditto	56		4	16	0		ditto 49		6 1	1 6	
ditto	50		4	17	6		ditto 1		38	0 0	
ditto	48	****	4	11	0		Grambler &St. Aub. 61		7	1 0	
Tineroft	68		4	5	6		ditto 49		5	7 6	
ditto	63	****	5	4	6	-31.7	Creegbraws 85		5	5 0	
ditto	57		5	19	.0	40	ditto 16	****	4	5 0	
ditto	56		2	5	0		Wheal Trewayas 89	****	5	5 0	
ditto	52		5	4	6		Wheal Harriet 59	****	3 1	1 0	
ditto	44		4	3	6		ditto 24		4 3	3 0	
ditto	42		2	0	0	150	Godolphin 35		5	. 0	
ditto	32		5	9	0	-	ditto 22		12 14	6	
ditto	25		3	3	0	Unto	Tretoil 50		5 6	5 0	
outh Caradon	. 96		6	2	0	140	West Fowey Con 50		4 4	6 4	
ditto	90		5	15	0	433	Wh. Comfort 30		3 1		
ditto	84	****	6	3	0	27/	ditto 9		2 10		
ditto	67		6	12	6	0 10	Wh. Clifford 37		5 12		
ditto	57			17	0	27.0	South Wh. Francis 27		3 17		
			10		VTA	T D	RODUCE.		71 70		
Youth Destroy		7.3	120	-	11.0	70 000	BODUCE.	19.75		L	

		- 11	117	L E	RODUCE.			
North Roskear 1234		£7352	15	0	Wh. Vyvyan116	 £455	17	6
Consolidated 585		3272	4	. 0	Grambler & St. Aub.110	 693	8	6
Cincroft 439		1877	11	6	Creegbraws101	 514	. 5	0
outh Caradon 434		2593	0	6		 467	5	0
Sast Wh. Crofty 395		2393	11	6	Wh. Harriet 83 Godolphin 57	309 461		0
Dolcoath278		955	- 1	0	Tretoil 50	265	0	0
outh Wh. Basset 244		1247	2	0	West Fowey Consols 50	 211	5	0
outh Roskear 3207		1101	14	4	Wheal Comfort 39	129	15	0
Vh. Chance		1131	**		Wh. Clifford 37	 209	19	6
owey Consols 201	****	929	7	0	South Wh. Francis 27	 103	19	0
A		D	(COL)	4.00		 		

Average standard, 104. 108.—Average produce, 12.—Average price per son, 54.78. Ou Quantity of ore, 4776 tons.—Quantity of fine copper, 370 tons 3 cwt.—Amount of mon 25,5644. 18. 6d.—Average standard of last sale, 104.9s. 0d.—Average produce ditto, 72.

The state of the s	Tons.	Amount,	
Mines Royal Company	. 332	£1948 17 0	
English Copper Company			
Vivian and Sons			
Freeman and Co			
P. Grenfell and Sons			
Sims, Willyams, Nevill, Druce, and Co	. 818	4078 10 0	
Williams, Foster, and Co	. 839	5207 0 3	

COPPER ORES

At SWANSEA, for sale May 7.—Cobre 109—103—104—93—60—31—100—82—80—76—54
—36—21—5. Santiago 94—83—81—76—69—67—54. Knockmahon 115—114—111. Bear-haven 131—71. Tigrony 79—40—17—2. Ballymurtagh 64—39—6. Llandidno 96. Cosheen 46—22—1. Bacuranao 60. Cronebane 33.—Total, 2527 tons.

TRURO, APail 29.—South Wh. Basset, 295l.; North Roskear, 620l.; Camborne Vean and Stray Park, 18l. 15s.; South St. George, 10l. 10s.; Budnick Consols, 35l.; Wheal Blenco, 7l. 10s.; Wheal Andrew and Nanglios, 45l.

LATEST CURRENT PRICES OF METALS, LONDON, MAY 1, 1845.

	Inon -Barg Wales ton 9 10-10 0 0	Tin-Com. blocksgcut. 0 0-4 5 0
	London 0 0-10 10 0	, bars 0 0-4 6 6 Refined 0 0-4 10 0
	Nail rods 0 0-11 5 0	Refined 0 0-4 10 0
	Hoop(Staf.) 13 10-14 0 0	Straits 3.15- 3 16 0
		Banca 3 17- 3 18 0
	Bars " " 0 0-13 0 0	
	Scotch pig b, Clyde 4 5-4 10 0	" IX 2 2-2 4 0
	Russian, CCNDc 0 0-	Coke, IC 1 12- 1 13 0
	, PSI 0 0-16 0 0	
	Gourieff 0 0-	LEAD-Sheet kton 0 0-18 15 0
	Swedish d, for arriv. 12 10-13 0 0	
	Swedish a, for arriv. 12 10—13 0 0	", Common 0 0—17 15 0
	Steel first to 0 10 10 0	" Spanish, in bd. 0 0—
	,, sites, lage, 15 0 15 10 0	, American 0 0
	Comme '' , kegse 17 10-17 15 0	SPELTER-(Cake) 1 0 0-22 10 0
	Corres Tilef 0 0-83 0 0	Zrnc-(Sheet) m 0 0-30 0 0
В	Tough cake 0 0-84 0 0	PERSONAL AND ADMINISTRATION OF THE PARTY OF
٠	Best selected 0 0-87 0 0	QUICKSILVER 7b. 0 0-0 4 6
۰	Ordinary sheets, 1b. 0 0-0 0 91	THE PARTY OF THE P
	" bottoms . 0 0 0 10	REFINED METALton 0 0-7 2 6
	a Discount 24 per cent. b Net cash.	e Discount 21 per cent. d Ditto
	e In kegs & and f-inch. f Discount 3 per c	ent. g Ditto 21 per cent. h Net cash
	in bond. i Discount 3 per cent.	k Ditto 24 per cent. l Net cash.
	m Discount 1 per cent. n Discount 1 p	er cent.
П	DEWA	RKS.

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Revery, continues limited. Scotch Pig.

In the past month a considerable change has occurred in the price of this article, which fell from 51. 10s. (buyers to 44. (sellers), at which last several thousand tons changed hands in the past week; without venturing an opinion as to the reasons which induced parties to come forward as sellers at such comparatively low rates, we know that the particle were promptly taken up, and a re-action having commenced, we think it by no means improbable the market will rally to about the makers minimum price of 54. 10s. Suedish.

None in first hands; good specifications for early arrival can be obtained at quotations. Steel not much in demand, but prices firm.

Coppar.—Demand good, for home use; but for exportation it is limited.

TINE—English.—A further advance of 5s. per over, in past month; stocks very bare.—Foreign.—The entire parcel of 75,000 slats of Banca offered for sale by the Dutch East India Company, on the 21st ult., was sold at a price equal to about 74s. per cwt. Stratigs sold yesterday at 75s., and our quotations, both for Banca and Stratis, must be considered sold prevent of the particle of the plant of the

SPELTER has advanced 5s. per ton, the demand being rather improved and stock low.

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	NING BHARES.
Shares. Company. Paid. Price.	Shares. Company. Paid. Price
233 Andrew and Boscawen 23 - 45	South Translately Controls 81 41
233 Anthew and Boscawen 23 . 45 50 Beft	5000 Treteich Consols 54 41
4000 Bedford 21 7	6000 Tincroft 7 14 128 Trewellard 12 254
10000 New British Iron, regis. 10 25 6	128 Trewellard 12 25 25 25 4
- Ditto ditto, scrip 10 19 201	206 Ting Tang 17 22
8000 Blaenavon 50 35 40	4000 United Hills D 4
190 Brewer	4000 United Hills.
5000 Con.Tretoil Mining Ass. 21 1	512 West Fowey Consols 40 35
128 Cosheen 20 200	384 Wheal Franco 20 70
3900 Corpubian Lead Co	128 Wheal St. Andrew 65 20
128 Comfort 35	256 West Caradon 40 400
2560 Cook's Kitchen 154	3845 West Wheal Jewel 104 44
1000 Carn Brea 15 90	120 West Trethellan 5 55 128 Wheal Rose
256 Caradon Wh. Hooper 3 10	128 Wheal Rose 40 45
1000 Calington 18 23 256 Caradon Wh. Hooper 3 10 128 Caradon Consolis 45 135 256 Caradon Copper Mine 18 54 128 Caradon Mines 1 70 256 Caradon Mines 1 70 256 Caradon Mines 1 112 Creeg Braws 120 109	123 Wheal Rose 40 45 256 West Wheal Tolgus 6 1000 Wheal Harriet 128 Wheal Penrose
256 Caradon Copper Mine 11 51	128 Wheal Penrose 10 128 Wheal Providence 16 180
256 Caradon United 3 11	128 Wheal Providence 16 150 68 Wheal Clifford 500
128 Creeg Braws	66 Wheal Clifford 500 256 Wheal Albert 10 . 12
1900 Combmartin 54 10	128 West Dasset 10 49
180 Doicoath 100	128 Wheal Acland 13 12 128 Wheal Sisters 431 50
	99 Wheal Seaton 150 400
10000 Durham County Coal 45 84	128 Wheal Henry 30
128 East Pool	
94 East Wheal Crofty 500	256 Wheal Hope 7 6 4000 Wheal Martha Consols. 3 54
128 East Wheal Rose 50 1500	130 Wheal Trelawny 104 135
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	256 Wheal Treven 4 5
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100 Great Consols	128 Wheal Catherine 51 12 256 West Providence
1000 Godolphin 35	256 Wheal Robins 13 15
256 Gonamena 6 116	256 West Wheal Treasury 12 12
2444Grambler & St. Aubyn 80 100 Great Consols 1000	256 West Wheal Shephard. 2 15
100 Grogwinion 5 20	128 Wheal Reeth 1 60
4000 Gunnis Lake 1 2	128 Wheal St. Cleer 74 30 128 Wheal St. Cleer 74 30 128 Wheal Reeth 1 60 128 Wheal Gill 174 40 128 West Cargoll 2 15 256 Wheal Mary 1 5 256 Wheal Concord 1 15 129 Wheal Contord 1 15 129 Wheal Vendand 2 10 256 West Wh Extendably 1
10000 Hiberman 121 1	128 West Cargoll 2 15
128 Hallenbeagle — 60	256 Wheal Concord 1 15
1000 Hanson	128 Wheal Venland 24 104
1000 Harrowbarrow Consols 1 3	
160 Levant	128 Wheal Prospect 4 74
128 Lanarth & Penstrutha 150	256 Wellington Mines 20
128 Lanarth & Penstrutha 150 1000 Lewis 5 6 128 Ludcott 3 5 6 128 Ludcott 3 5 50000 Mining Co. of Ireland 7 12 2800 Marke Valley 10 5 70 North Roskear 630 200 North Holmbash 15 100 North United 29 20 206 North Wheal Rose 224 75 256 North Wheal Rose 224 75 256 North Treburget 1 5 15000 Northern Coal Co. 23 2 600 Old Delabole State Co. 25 45 128 Far Consols 770	240 Westerlake 3 100 1024 Wheal Maria 1 600 256 Wheal Fortescue 11 46 256 West Wh. Maria - 321 128 Wheal Pollard 3 20
20000 Mining Co. of Ireland 7 13	256 Wheal Fortescue 14 40
2800 Marke Valley 10 5	256 West Wh. Maria 324
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100 North United 29 20	512 Wheal Sarah 21 5
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15000 Northern Coal Co 23 . 2	FOREIGN MINES.
600 Old Delabole Slate Co. 25 45	15000 Asturian Mining Co 5 5 10000 Anglo-Mexican Co 100 3
600 Old Delabole State Co. 25 . 45 128 Par Consols	5000 Alten Mining Company 144 3 15000 Asturian Mining Co 5 5 10000 Anglo-Mexican Co 100 3 3374 Ditto Subscription 25 4
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1000 Stray Park 43 - 184 128 South Wheal Basset — 290	5000 Ditto Scrip]
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120 Trethellan 5 90	Ditto Red Debentures 19
128 Trewavas 573 96 Tresavean 10 280	Ditto Black ditto 17
128 Tregardock 3 8	7000 Royal Santiago 10 24
128 Tokenbury 97 100	Ditto Rad Debentures
256 Trenow Consols — 135	11000 St. John der ney 13 ST
120 Treviskey and Barrier 61 230	43174 United Mexican 281 48
RAILWAY SHARE LIST, A	ND TRAPPIC DETURNS
ARIZWAI SARRE MISI, A	on the on Value Test (Made)

Name of Railway.	Lgth. Rway.	Present ac- tual cost.	Pd. on share.	Val. of Share.	Last Div.	Traffic 1845	Returns 1944
Arbroath and Forfar	15	£140,782	20	294	21	£158	£162
Birmingham and Gloucester	55	1,527,267	100	134 6	2	-	2086
Bristol and Birmingham	904		-	-	4	3641	-
Bristol and Gloucester	374	501,177	30	56 8	14	-	-
Chester and Birkenhead	15	519,331	50	47	Long	609	532
Dublin and Drogheda	32	579,253	60	97	14	739	1
Dublin and Kingstown	6	349,736	100 -	240	6	6.000	1722
Dundee and Arbroath	17	153,416	25	35	4	260	253
Durham and Sunderland	19	267,769	50	30	4	634	431
E. Counties & North, & East,	84	4,090,328	45	-	14	4694	4420
Edinburgh and Glasgow	46	1,686,226	50	64 6	11	2856	2363
Glasgow, Paisley, and Ayr	51	1,081,531	50	60	11	1664	1239
Glasgow, Paisley, & Greenock	23	787,844	25	18	11	847	737
Grand Junction	119	2,503,671	100	228	10	9193	7648
Gravesend and Rochester		ajooojori	100	220	10	141	1040
Great North of England	45	1,280,076	100	200	6 -	1705	1353
Great Western	220	7,455,689	-80	186 8	8	16563	14974
iverpool and Manchester	31	1,698,626	100	201 3	9	5227	4347
ondon and Birmingham	120	6,393,468	100	234 6	10	18842	17444
ondon and Blackwall	4	1,078,851	161	9 4	11	1020	1050
ondon and Brighton	56	2,637,753	50	624 31	6	3792	3538
London and Croydon	10	761,885			4		
London and Greenwich	4		134		1000	1175	311
ondon and South-Western	93	1,038,340	12#	10# 11	10	987	244
	31	2,604,405	50	78 80	10	6150	6139
Manchester and Birmingham		1,959,062	40	57 9	5	3760	3254
lanchester & Leeds & Hull	87	3,972,869	78	138	8	5955	78513
Manchester, Bolton, & Bury	10	792,336	93	160 2	- 54	926	737
didiand	179	6,259,838	100	156 8	6	11192	8623
lewcastle and Carlisle	65	1,085,497	100	117484	4	1385	1319
wewcastle and Darlington	224	506,788	24	48	8	1173	544
lewcastle and North Shields	7	316,869	50	68 70	6	362	307
North Union, Bolton & Preston	32	1,028,593	100	145 6	67	1448	1223
reston and Wyre	22	432,014	50	324 34	-	449	241
heffield and Manchester	19	690,000	874	120 2	-	727	536
outh-Eastern and Dover	88	3,464,172	331	394401	21	4482	3691
aff Vale	30	595,090	100	104 6	3	926	894
lister	25	347,345	294	49 50	5	557	594
armouth and Norwich	201	250,057	20	274 #	8	228	3 111
fork and North Midlend .	53	1,107,146	80	102 4	10	2432	1524
Paris and Orleans	-	2,000,000	20	464 7	4	6015	5499
Paris and Rouen	-	1,995,306	20	414 2	74	5230	4735

The following are current prices of Railwa	y Shares, not included in the above Table: -
Name of Railway. Price.	Name of Railway. Price.
Aberdeen 48	North Wales Mineral
Armagh, Coleraine, and Portrush 21 1	North Wales 24 3
Bristol and Exeter 82 4	Portsmouth Direct 94
Brighton, Lewes, and Hastings 11 105	Richmond and West End Junction 34
Caledonian :	
Cambridge and Lincoln 71 84	
Churnet Valley 74 7	South Devon 28
Chester and Holyhead	Scottish Central 71 65
Cornwall 44	Sheffield and Lincolnshire 12 2
Coventry, Bedworth, & Nuneaton 31 4	Shrewsbury and Grand Junction 54 4
Coventry and Leicester 24	Shrewsbury, Wolverhampton, &c 4
Direct Northern to York 3 4	Staines and Richmond 11 4
Direct Norwich	Scarborough
Diss, Beccles, and Yarmouth 14	Scottish Midland 34 4
Dublin and Belfast	Trent Valley
Dublin and Galway 31	West Cornwall 34
Dublin and Mullingar 44	West Yorkshire 7
Ely and Bedford 32 2	Waterford and Kilkenny 34
Eastern Union 214	Yarmouth and Norwich 274 1
Essex and Suffolk 21 3	York and Selby
Gt. Southern & Western (Ireland) 181 19	TOTA ALIC SCHOY
Great Grimsby and Sheffield 61	Boulogne and Amiens9 104
Guildford, Farnham, and Portsmouth 51	Bordeaux and Toulouse 27
Hull and Gainsborough	Ditto, Toulouse, and Cette 24
Harwich and Eastern Counties June. 2 14	Dieppe and Paris Junction 2
Kendal and Windermere 51	Central of France
Kentish Coast	Great Northern of France 51 1
Lincoln, York, and Leeds	Lyons and Avignon 21
London and York	Orleans, Tours, and Bordeaux 94 10
Lynn and Ely 62 4	Orleans and Vierzon
Lynn and Dereham 34 4	Paris and Lyons (Ganneron's) 24
Lancaster and Carlisle 431	Paris and Lyons (Calon's) 2
Londonderry and Enniskillen 31 4	Paris and Lyons (Lafitte) 2f
Londonderry and Coleraine 3‡ Newcastle and Berwick	Paris and Strasburg
Newcastle New (Brandling)301294	Rouen and Havre
Newark and Sheffield 5 51	Royal North of Spain 24
Newry and Enniskillen 5 1	Sambre and Mense 94 4
	Strasburg and Basle 12
North Kent	Tours and Nantes (Mackenzie's) 3
Morwich and Drandon	Ditto (Levevres) 3

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[May 3, 1845.]

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1524 5499 1735

EASTERN COUNTIES RAILWAY.

COLCHESTER LINE.

REDUCTION OF RATES.—EXTRA GOODS TRAIN.

The PUBLIC are informed that, on and after the let of MAY next, the RATES for the conveyance of MERCHANDISE and AGRICULTURAL PRODUCE on this line will be EDUCED. Printed bills, containing full particulars, may be obtained at the different stations.—For the accommodation of the public, an EXTRA GOODS TRAIN will leave to the control of the public, and EXTRA GOODS TRAIN will leave to the control of the public of the publ

The PUBLIC are informed, that, on and after MONDAY NEXT, 5th of May, THIRD-CLASS PASSENGERS will be conveyed between LONDON and COLCHESTER at the not of A PENNY FER MILE. The train will leave London at 12:30 r.m., and return from Colchester at 7.0 r.m. The distance will be performed in about three hours and plaif. Pull particulars in Time Bills.

EAS TERN COUNTIES RAILWAY.

CAMBRIDGE LINE.

EXPRESS TRAINS BETWEEN LONDON AND BISHOPS STORTFORD.

Notice is hereby given, that, on and after MONDAY NEXT, the 5th of May, a TRAIN, conveying FIRST and SECOND CLASS PASSENGERS, will leave Shoreditch for Bishops Stortford at a quarter pass Rine Am, and Bishops Stortford, for Shoreditch, at Eleven a.M., performing the distance each way in about three-quarters of an hour. These trains will not stop at any of the intermediate stations.

Offices, London Terminus, April 29, 1845.

Offices, London terminus, April 29, 1845.

POYAL NORTH OF SPAIN RAILWAY.—The board of directors hereby give Notice, that they are ready to RECEIVE TENDERS for the HIRE of a STEAM-VE-SEL, of about, but not less than, 100-horse power, to be employed in the conveyance to the port of Aviles, on the northern coast of Spain, of the surveying and engineering staff, the materiel connected therewith, &c. The contract to be for three months' certain, optional, on the part of the board, to continue the same for any longer period at a specified charge per month. The vessel must be approved of by a surveyor, to be appointed by the board, and to be at Falmouth, ready for sea, on Tuesday, the 6th of May next. The tender to include every expense, except the provisions for the concers and men in the employment of the company. By order of the board, 15, New Broad-street, April 28, 1845.

for Interes Incursion currents, out and part of the colors, and the search of the party of the search of the color of the party of the search of the color of the party of the search of the party of the party of the search of the party of the party

loubtedy take the line to Waterford rather than to Dublin.—Waterford being the more invenient sea-port."

The shortness of the passage from Wexford to Fishguard, and its favourable character with respect to the tides, prevailing winds, &c., would of course render Wexford the most lightle of the frish ports for embarkation; and, when it is considered that a coast line from Cork to Waterford, via Youghall, also that a line from Kilkenny to Galway, are proceed, it will be evident that a vast portion of the traffic of Ireland, south and west of Dublin, must fall in upon some part of the proposed railway.

The very romantic and justly celebrated beauties of the county Wicklow, in the immediate vicinity of which the proposed line will pass for many miles, will probably attract the proposed railway in Ireland. On this point the railway in Ireland and the proposed water for such undertakings, aret be mentioned the numbers from all part as a proper of the proposed Waterford, Wexford, Micklow, and Dublin Railway will pass, has long been if the proposed Waterford, Wexford, Wicklow, and Dublin Railway will pass, has long been the proposed Waterford, Wexford, Wicklow, and Dublin Railway will pass, has long been to the possession of all the element aftac constitute commercial and agricultural greatiess, compled with the uniform tranquility and industry which pervade all classes of its opticalism, the promoters of this undertaking have the fullest conviction that, allies on industry which pervade all classes of its optical on, the promoters of this undertaking have the fullest conviction that, allies on industry and industry which pervade all classes of its optical on, the promoters of this undertaking have the fullest conviction that, allies on industry the proposed water for more in the amount of the subscriptions paid up, and no subscriber will be answerable for more han the amount of his deposit of \$2\text{ 1

To the Provisional Committee of the Waterford, Wicklow, and Dublin Railway.

Gentlemen,—I request you will allot me shares, of £20 each, in the above roposed railway; and I hereby engage to pay the depositor £1 10s. per share, and to sign the subscribers' agreement and Parliamentary contract when required.

Dated day of Stemsburg.

ONDON AND WINDSOR RAILWAY—Offices, No. 62,
Moorgate-street, London, April 28, 1845.—The applications for shares in this company being upwards of 200,000, the provisional committee have been compelled to DELAY the ALLOTMENT, in order to make the necessary inquiries respecting the applicants.
The letters of allotment will be issued this week, and the committee have to request that those parties who may not receive an allotment, will accept this general answer to their applications; at the same time, the committee much regret that so many applications of great respectability, have necessarily been omitted, and all greatly abridged,
By order of the committee,

E. W. H. BELL, Secretary.

NEW ROSS AND CARLOW JUNCTION RAILWAY.

Applications for shares in this company must be made before the 18th inst., to Mesers. John Shewell and Sons, 24, Tokenhouse-yard, London; or to Anthony F. French, Esq., New Ros.—Printed forms of application for shares may be had of the solicitors.

A L T O D O U R O R A I L W A Y.

Capital 6000 contos of reis (£1,350,000), in 60,000 shares, of 100 milreis (£22 10s.) each.—Deposit 6 milreis (£1 7s.) per share.

This line, formed under the highest patronage, both in Fortugal and this country, will immediately connect the harbour of operate with the entire wine district.

Following the valley of the Dours, no engineering difficulties present themselves—a fact satisfactorily ascertained by preliminary surveys. Even from existing statistical returns, the traffic of this route will amply repay investment, and, when conjoined with the increase which has invariably attended the introduction of rallway transit, will insure a far greater return than any project of the day.

Prospectuses will shortly be issued i in the mean time applications for shares may be made at the temporary offices of the company, 95, Gracechurch-street, City.

May 2, 1845.

SHREWSBURY, HEREFORD, AND NORTH WALES RAILWAY COMPANY.—Provisionally Registered.

Capital £1,250,000, in 25,000 shares of £50 cach.—Deposit £2 15s. per share.

FROVERIONAL COMMITTES.

J. Winder Lyon Winder, Esq. Vanenor Park, High Sheriff of Montgomeryshire Sir Charles Thomas Jones, Montgomery, Magistrate of Montgomeryshire Rev. Richard John Davies, Aberharfesp, Magistrate of Montgomeryshire Rev. Richard John Davies, Aberharfesp, Magistrate of Montgomeryshire The Rev. John Robert Smythies, Lynch Court, Herefordshire, and Woodlands, Rutlandshire

Major Newcombe, Penstrowed, Montgomeryshire

The Rev. John Robert Smythies, Lynch Court, Herefordshire

George Beadmall, Esq. 1, Lombard-street, London

William Oatkley, Esq. Oakley Park, Magistrate of Montgomeryshire

James Henry Levin, Esq. 23, Coleman-street

David Pugh, Esq. Lahaenchyddol, Magistrate of Montgomeryshire

John Kerr H

the line; and no shares will be appropriated except to persons who shall give satisfactory reference.

Application for shares must be made, in the form appended, to Messrs. Lewis and Ford, solicitors, S.R. Essex-street, Strand, and 41, Moorgate-street, London; Edwin Smith, Esq., solicitor, Gray's Inn, London; J. T. Woodhouse, Esq., solicitor, Loominster; John Owens, Esq., solicitor, Newtown, Montgomeryshire; Messrs. Carden and Whitehead, Thread-Bost, Standish, Branchester; Mr. H. Gollis, and Mr. James Pearson, Birmingham; Messrs. Standish, Blackett, and Co., and Mr. James Jamelsson, Leeds; Mr. Francis Stamp, Hull; Mr. L. Weatherburn, Jun., Huddersfield; Mr. Thomas Boardman, Blackburn; Mr. George Dark, and Mr. Samuel Hutchinson, Bradford; Mr. William Cronheim, Halifax; Mr. Charles Spencer, Nottingham; Mr. Samuel Eyre, Derby; Messrs. Grayston and Earle, York; Mr. William Farrer, Ripon; Mr. E. H. Armitage, Wakefield; Messrs, Joseph Carr and Son, Whitehaven; Mr. James Stokes, Chellenham; Mr. Joseph Clarke, Jun., Southampton; Messrs. Tate and Nash, and Mr. W. H. Land, Bristol; Messrs. Beaumont and Langworthy, Exeter; Mr. John Thomas Holland, Coventry; Messrs. Reid and Nicholson, Messrs. Thomas Farqularson and Co., and Mr. Andrew Mofnat; Edinburgh; Messrs. Dunear and Hutchinson, Glasgow; Messrs. Owardd, George, and Co., Aberdeen; and at the office of the company, 41, Moorgate-street, London.

**To the Provisional Committee of the Shresabury, Hereford, and North Wales Railway.

To the Provisional Committee of the Shrewsbury, Hereford, and North Wales Railway.

Gentlemen,—I request that you will allot me shares, of £50 each, in the above proposed railway, and I undertake to pay the deposit of £2 lbs. per share, and to execute the subscribers' agreement and Parlimentary contract when required.

Dated this day of Railway.

Amne. Raidence Trade or profession Reference.

PAILWAY ON WIMBLEDON COMMON—
PROSSER'S PATENT RAILWAY GUIDE WHEELS.—On and after the 12th of May, a line of railway about two miles in length will be opened on the above common, the engine and carriages fitted with Production of the line is laid with iron, and the remainder oser's Patent Guide Wheels. A portion of the line is laid with iron, and the remainder oser's Patent Guide Wheels. A portion of the line is laid with iron, and the remainder oser's Patent Guide Wheels. A portion of the line is laid with iron, and the remainder oser's Patent Guide Wheels are guide with the line contains.

The line contains gradients from 1 in 50 to 1 in 120, and a curve (upwards of half a fille in length), the radius of which is lone chains.

Engineers and others interested in railways are invited to visit this railway, as by the adpoint on of these Guide Wheele, a great saving is effected in the expenses of working a line by the diministion of rection, and, it the wooden rails be adopted, a swing in the cost of making railways of from 1600 it o 4000, per mile. Wimbleston Common is half a mile from the Wimbleston station of the South-Western Ealway.

Every information may be had, and terms on which licennes will be granted for the use of these Guide Wheele, on application to Mr. George Hadley, 36, New Broad-street, London, accrutary to Prosser's Patent Railway Guide Wheel Company.

DALI ROAD AND GENERAL ENVESTMENT PANKING

RAILROAD AND GENERAL INVESTMENT BANKING

of these Guide Wheels, on application to Mr. George Hadley, 36, New Broad-street, London, secretary to Prosser's Patent Railway Guide Wheel Company.

RAILROAD AND GENERAL INVESTMENT BANKING COMPANY.

TO BE ESTABLISHED BY CHARTER OR ACT OF PARLIAMENT.

TRESTESS FOR DEFOSITS.

The Hight Hon. the Earl of Devon
The Hon. Philip Pleydell Bouverie, Hill-street, Berkeley-square John Hodgson, Eaq., QC, Now-square, Lincoin's Inn
William Fullarton Lindsay Carnegie, Esq., Kimblethmont, Forfar, N. B.
Joshna Walker, Esq., Lambeth Lead-Works, and 27, Abchurch-lane

COMMITTEE OF ALLOTMENT.

G. J. Hossack, Esq. St. Mary-at-Hill
Thomas Galloway, Esq., Scylcant's finn, Fleet-street
Samuel Hulme Day, Esq., 21, Fudding-lane
DIBECTORS.

The promoters of the company reserve to themselves the nomination of the first five directors (being noblemen, merchants, bankers, or others of equal respectability), who e names will be published in the London Gazette, and to whom the trustees will pay over such money as they may have received for shares.

BANKERS—Messrs, Bouverie and Co., 11, Haymarket.

STANDING COUNSEL—H. J. Hodgson, Esq., Pump-court, Temple.
SOLICTIORS—Hodgson, Concanen, and Noyes, 5, Lincoin's Inn-fields.

40,000 shares, of £100 each.—Deposit £5 per share.

This bank will be founded upon the existing powers of the law; but application to Parliament is contemplated for investing it with those authorities and privilegoe which will be alike protective to the community, and remumerative to those whose money may be embarked in it. The business will be to employ the capital of the shareholders, and also the deposits made by the public for specified periods, for the purpose of investment.

With reference to the latter, it may be concisely stated, that there is a very large unemployed capital in the country, in sums of less than 500, remaining unpreductive to the owners, in consequence of the want of a safe and simple means of investment, which this company will afford. These deposits of the safe harder companies, by way of loan or mor

PILBROW'S ATMOSPHERIC RAILWAY AND CANAL

PILBROW'S ATMOSPHERIC RAILWAY AND CANAL PROPELSION COMPANY.—(Provisionally Registered.) Properties of the former prospectus, the provisional directors have considered it desirable to negotiate with the patientee for his whole right of patents, instead of confining themselves to the United Kingdom and Ireland, as originally proposed; and the directors have now the satisfaction of announcing to the public, that they have agreed for the purchase of the British and foreign right of Pilbrow's Atmospheric Railroad and Canal Propulsion Patents. By this extended arrangement the directors have obtained the patents upon much more ad vantageous terms for the proprietary, in consequence of which the amount of call necessary to carry out the object and intention of the company will be greatly diminished, and the prospect of immediate return considerably increased. In lieu of \$\delta\$, \$\delta\$ is pained by a foreign the cover the expenses of purchase, and to lay down a line of sufficient length to prove the superiority of Pilbrow's Atmospheric principle.

The enlargement of this undertaking, however, necessarily involves many changes; the amount of capital and the number of shares must be considerably augmented, but the shares will still be continued at the same amount—vis., \$\delta\$0 states in the best of the Occade of the Occade of the Dece of Settlement.

DERECTORS.

amount of capital and the number of shares must be considerably augmented, but the shares will still be continued at the same amount—vir., £10 shares, to meet the wishe of the original applicants.

An instalment of £1 per share will be required on the signing of the Deed of Settlement Directors.

The Right Honourable the Earl of ESSEX, Chairman. The Right Honourable the Earl of ESSEX, Chairman. The Right Honourable the Earl of BESSBOROUGH.

George Buckley Bolton, Esq.

Lieutenant-Colonel Gilliess.

Capital Britten.

Frank Lambert, Esq.

Anthony White, Esq.

Authony White, Esq.

Authony White, Esq.

Authony White, Esq.

ENGINEERS—Alex. Gordon, Esq., M. Inst. C.K.; Frederick Braithwaite, Esq., C.E.

SERETABLEX COUNSEX—Thomas Webster, Esq.

SELECTORS—Messrs. White and Borrett.

SECRETABLY—Charlet Collins, Esq.

Messrs. Cocks, Biddulph, Biddulph, and Co., 43, Charing Cross.

OFFICES, 6, KING WILLLAM-STREET, LONDON.

The prominent advantages of this system of atmospheric traction are, that the continuous valve is dispensed with—roads are crossed upon a level without interruption of main—one atmospheric railway can be intersected by another; thus saving bridges, approaches, and leakage—and it is confidently expected that a stationary engine every ten miles with a small comparative expense in working and construction.

and leakage—and it is confidently expected that a stationary engine every ten miles will be sufficient. The system combines extreme simplicity with perfect efficiency, and that obtained with a small comparative expense in working and construction. It is estimated that a saving altogether upon the other plans of atmospheric railways (having the continuous valve), would be nearly £3000 per mile: two mains or lines can, on this plan, be laid for little more than the cost of one, upon the other plans, and a saving in working, or annual expenses, of two-thirds.

Increased safety is insured, also obstruction and destruction by weather and other causes are placed beyond probability by the mains being furired, &c.

The objects of the company will be to dispose of foreign patents; to grant licenses to British and Foreign railway and caval companies to use the invention, or lay down the works under contracts with the different companies, and to lay down an experimental line in the neighbourhood of the metropolis, by agreement with any existing company or otherwise.

line in the neighbourhood of the metropolis, by agreement with any extension company or otherwise.

The income derivable from these sources offers considerable advantages, while the expenses, with the exception of the purchase of the patents, and laying down the experimental line, are obviously small.

A model, upon a scale of one inch to the foot, may be seen at work on Wednesdays and Thursdays, between twelve and three o'clock, at the company's offices, by application to the secretary of officers of the company.

FORM OF APPLICATION FOR SHARES ADDRESSED TO THE SECRETARY.

To the Directors of Pubrow's Atmospheric Railway and Canal Propulsion Company, Gentlemen,—I request you to allot me shares, of £ each, in the above company, and I undertake to accept the same, or any smaller number of shares that may

This Asphalte is a bituminous limestone, obtained from an inexhaustible mine at Pyrimont, in the Jura mountains. Previously to its introduction into this country, in 1838, the material had been used for many years in France, and, from its great utility, was extensively patronised by the Government of that country.

Among the various uses to which it can be applied, the following may be enumerated?—For foot-pavements, public and others; in the carriage approach to manaions, garden—walks, and terraces; the flooring of kitchens and other assement offices; also of coach-houses and stables, dog-kennels, barn-floors, cow-houses, piggeries, poultry-houses, tun-rooms, and maltings. For roofing, covering of railroad and other arches, the lining of underground cellars near rivers, to prevent the ingress of the tides; also in covering the ground line of walls, to prevent damp rising (this application of the Asphalte of Seguest is particularly recommended by the Commissioners of the Size Arts), thereby rendering the particularly recommended by the Commissioners of the Size Arts), thereby rendering the particularly recommended by the Commissioners of the Size Arts), thereby rendering the particularly recommended by the Commissioners of the Size Arts), thereby rendering the particularly recommended by the Commissioners of the Size Arts), thereby rendering the same applied to docks, breakwaters, or walls built for resistance to the encreachments of the sea. For Inling of tanks, fish-ponds, and other hydraulis purposes.

If FARRELL, Secretary,

Seysee Asphalte Company's Works, "Claridge's Patent,"

Seysee Asphalte Company's Works, "Claridge's Patent,"

Segues of Instructions for Use, may be had of all bootsellers in turn and country, price 1s.

RAILWAY GAZETTE.

RAILWAY PROGRESS.

RAILWAY PROGRESS.

We last week furnished a succinct statement of the progress and position of the Chester and Birkenhead Railway, giving copious statistics of its cost and gradual advance, and inferring from its success as a minor and struggling line, the extended advantages of the railway system generally. We now propose to place side by side with that review a similar sketch of the Dundee and Arbroadh line. The company has been formed with a capital of 200,000/c, to be raised by the issue of 8000 shares, at 25/c each. The whole of this subscription has been paid up, while the total amount hitherto expended has been 153,416/c, the total length being only seventeen miles. By the last report, presented to the proprietors in June, 1844, we find that of this 153,416/l, 110,216/c was expended on the purchase of ground and property, the construction of the line (independent of the erection of stations, &c.), and the account paid to the contractors, and the remaining 49,2000 on Parliamentary expenses, embankments, stations, and other works, besides various contingent items consequent on the construction and opening of the line. The revenue account for the year ending the 1st of May, 1844, shows a total expenditure during that period of 8633/c of which 1825/c appears for engine expenditure, 1251/c for carrying account, 440/c for general charges, 733/c for maintenance of way, 133/c for repairs of stations, and 150/c for minor disbursements, besides 2097/c for interest, about 2000/c for minor disbursements, besides 2097/c for interest, about 2000/c for salaries, feur-duties, and a balance remaining in hand of 5354/c. To meet these expenses, an income of 13,937/c. way, 133l. for repairs of stations, and 150l. for minor disbursements, besides 2097l. for interest, about 2000l. for salaries, feu-duties, and a balance remaining in hand of 5354l. To meet these expenses, an income of 13,987l. was obtained from traffic, rents, &c., to which the passengers fares contributed 9137l., parcels 710l., merehandise 3363l., cartages 86l., rents of property 53l., and carriage of mails 636l. During the preceding year, the number of passengers travelling on the line had been 237,936l., paying an amount of 8967l., while that for the year ending May 1st, 1844. was 243,569, paying 9137l.—showing an increase on the subsequent period of 5633 passengers, and 440l. for fares. The amount received for parcels in the year ending May, 1843, was 630l., and for goods 2810l.—making a total, including passengers fares, of 12,128l. The parcels charges in 1844 amounted to 710l., and goods 3363l., which, with the passengers fares, amounted to 13,211l.—thus presenting an increase on the latter year of 1082l., or an average amount of 25l. weekly. The consequence is, that, after paying off several minor debts, and a reduction of 3½ per cent. on their principal remaining debt, the company pay the fair and remunerative interest of 5l. per cent., and the last sale recorded on the books of the company is 35l. per share, on which, as we before mentioned, 25l. had been paid.

STANDING ORDERS-DIRECT NORTHERN RAILWAY. STANDING ORDERS—DIRECT NORTHERN RAILWAY.
In looking upon the present state of the railway world, who can help being strack with the precarious position in which the propagators and bona fide shareholders of the various schemes are placed, by the operations of their companies being investigated by so searching a tribunal as that of the Committee upon Standing Orders. That such a tribunal is, in the abstract, both necessary and beneficial, no one, looking round on the various projects concocted for momentary gain, frandulent in their creation, and never intended to succeed, can reasonably doubt. For such no government could be too severe, nor no inquisition too rigid, to check its imposture, as well as warn the public from trusting to their professions. But, while an exacting and deterring power works usefully on such, unless the nicest discrimination be observed, these advantages will be more than neutralised by the injuries it will entail. At present there are many undertakings, not only sound and deserving in themselves, but promising than neutralised by the injuries it will entail. At present there are many undertakings, not only sound and deserving in themselves, but promising to become sources of vast public advantage, yet these, from the very magnitude of their designs—though promoted under the surveillance of men, whose ability and integrity is beyond dispute—are frequently retarded, if not defeated, by an omission in some department of its machinery, the intriency and delicacy of which is sufficient to compromise the safety of the most perfectly organised undertaking.

After the body of provisional directors have brought a project to a state of all but permanent success. despite all impediments thrown in its way

all but permanent success, despite all impediments thrown in its way ropposing interests, till they see it even favourably considered by that ibunal instituted by the Government itself to test its merits and professions; after its capabilities and superior advantages have been solemnly adjudged as well as publicly admitted, we frequently see it, on its progress before the Standing Orders' Committee, overthrown, and all its benefits to the community sacrificed, by the carelessness of some individual, or the omission of some detail which no caution could have obviated. And who omission of some detail which no caution could have obviated. And who is it that suffers? Not the engineer, or the solicitor, or the agent, in whose department the fatal contingency occurred—no, but on the shareholder immediately, and the public remotely; but not less immediately does the whole loss descend. And how are they to be defended from the errors of their officers or their servants—the latter not known, or, if known, not recognised by the public? A body of men select, for example, an engineer—one of tried talent and integrity—he is the pivot on which the whole affair must work, they place absolute confidence in him, allot him large grants of money, and, in fact, withhold nothing that can tend to the successful issue of the undertaking. It is quite impossible for the engineer to make a personal survey himself, to go over and make an admeasurement of every inch of ground; he is compelled to employ others, and by the slightest carelessness of one man (perverted into fraud by those interested to defeat it), an error is committed, entailing the overthrow of the whole project: it may be an error of magnitude, it may be but of trivial moment, the error has been committed—Standing Orders have not been complied with.

complied with.

We have been drawn into these remarks by the result of the inquiry into the Direct Northern line, before the Committee of Standing Orders: in the preparation of the project, and in the numerous details necessary for the information of Parliament, some omissions and errors have occured purely, we are confident, from the haste in which it was prepared to go before the Legislature this session; and the Committee have decided that the omissions are fatal, and such as to preclude their dispensing with the Orders. Now, while we would be far from holding, that there hand be said to present the committee have a second or the last to the contraction. with the Orders. Now, while we would be far from holding, that there should be no rule, no protection, or no limits to railway transactions, widely different as have always been our principles and repeated professions, we would contend that, before a wholesome and authoritatively approved undertaking is suddenly condemned by a secondary tribunal, its merits, its capabilities, above all, its integrity and national advantages, should be sedulously investigated: these should be the great and primary subjects for examination, to which every other minor detail should be made subservient, and in which every other consideration should be merged. Such a course would meet every object which the present defective haw wishes to attain: the fraudulent, with the useless, schemes, would be successfully defeated, while grand and sterling projects, for public aggrandisement and legitimate private investment, would be advanced, would be successfully defeated, while grain and stering projects, for pro-lic aggrandisement and legitimate private investment, would be advanced, instead of being compromised, as they now are, by some insignificant de-fect, whofly independent of the merits of the scheme. We observe that, though unquestionably impeded by the decision of the Select Committee, it is the intention of the committee of the Direct Northern to proceed it is the intention of the committee of the Direct Northern to proceed with their case before the other authorities inquiring into the group of bills in which their project is included, expressing, as they do, at the same time, the fullest confidence that the superior merits of their line north of Lincoln are so unquestionable, as to secure the assent of Parliament, if not this session, at all events in the succeeding. This, of course, is wholly problematical. After the viciositudes which have already characterised the lines projected for supplying this particular district, alternating now in favour of this and now of that, it would require more than ordinary foresight to prognosticate the issue of these contending schemes.

REPORT OF THE SELECT COMMITTEE ON ATMOSPHERIC

RAILWAYS.

The results which we anticipated from the appointment of this tribunal, have fully confirmed our previously-expressed opinion; doubting its capacity to furnish any decision on which either authority or reliance could be placed, we foresaw from the first the worse than failure that must follow its creation. Men of no practical scientific knowledge whatever, accustomed solely either to political or commercial considerations, how could they be expected to give a satisfactory, even a commonly intelligible, opinion on the merits of as great and intricate a scientific question, as, perhaps, ever agitated the community? It was not as a preliminary inquisition, nor as an inferior or secondary tribunal, merely to offer suggestions and recommend certain modifications, that this committee was created; in such a case their inability would have been less conspicuous—certainly, less injurious—but a number of members were selected from our Parliament, solemnly and judicially to set at rest a rexate questio, to pronounce an authoritative decision on a question of vast national importance, but on which the public generally was ignorant, and rendered more RAILWAYS

so by the conflicting statements of disinterested and connected parties, more competent to have given satisfactory information. It was to obviate this disadvantage that a final reference-was made to Parliament, and out of that assembly, comprising many highly competent to give both a lucid and unpledged opinion, a selection was made as unsatisfactory as it was unworthy. And what are the fruits of this committee? A shallow, unmeaning, and absolutely ridiculous report; instead of being comprehensive, it is brevity itself, and brevity not redeemed by succinct concission, but characterised by rambling verbiage. They appear to feel-their inability in every line; they shirk the entire question, and leave it—not where it was before, but ten-fold more mystified. In their simplicity, they, at one period, give vent to an exclamation, indicative more of their highly imaginative conceptions than their common sense, in such a rhapsody as at one period, give vent to an exclamation, indicative more of their nignly imaginative conceptions than their common sense, in such a rhapsody as this—"If it were practicable to suspend all railway legislation until the result of the Devon and Cornwall, and of the Epsom and Croydon atmospheric railways were known;" or "But such a course, independent of all considerations of expediency, is evidently impracticable." We in our innocence supposed that this committee was instituted to inform the public of practicabilities, instead of indulging in speculations of impossibilities, or informing the public of their irrational and impracticable ideas.

One more extracted to two will we think serve to give a pretty fair no-

nocence supposed that this committee was instituted to inform the phone of practicabilities, instead of indulging in speculations of impossibilities, or informing the public of their irrational and impracticable ideas.

One more extract or two will, we think, sorve to give a pretty fair notion of the nature of the document before ns, and its conclusive character, as grappling with the difficulties of the question, and informing the public on points deeply interesting to them in a commercial, social, and economical point of view. "With respect to expense, and to some other contested points, your committee do not feel themselves competent to report a decided opinion?" Not on contested points, forsooth! Why—for what, in the name of common sense, were they appointed? Was it to take a pleasure trip to Ireland, making a delightful excursion along the Dalkey line, feasted by railway directors, be well paid, return home, and then report on what every one knew before—on which there was no doubt, no question raised whatever? They are honest, at least, in telling us of their incompetency; but that, teo, is but carrying out their principle of announcing notorious and undisputed facts. Again, the comparison between the two systems "must depend much on details, of which we are ignorant—much on scientific knowledge, which we do not possess." Poor old gentlemen, no one doubted it; but why were you selected? Why nominate yourselves, merely to make such an abject confession? But to the great decision—after these apologies, and extending to within a few lines of the conclusion, we had our misgivings as to the finale, and scarcely expected such a pregnant adjudication as the following:—"Your committee was instituted to inquire into the broad question, Whether the atmospheric line, at the present time?" An atmospheric line is "Your committee" was instituted to inquire into the broad question, whether the atmospheric principle was so superior to the present locomotive system as to supersede it, and warrant its becoming a universal a but of the universal principle; and to this important specific question the answer is—"Try an atmospheric line." Truly, the public must be greatly obliged for this valuable information!—how delighted it must feel, scarcely less than by the following concluding paragraph:—"Your committee feel that experience alone can determine under what circumstances of traffic or of country, the preference to either system should be given!"

traffic or of country, the preference to either system should be given !"

THE ATMOSPHERIC RAILWAY SYSTEM—MR. PILBROW AND M. CHAMEROY.

It has been asserted by some, that the Pilbrow method of atmospheric propulsion, or traction, is not new, but that it is precisely the same as that which has been adopted by M. Chameroy, in France. Though we have not had the pleasure of seeing M. Chameroy's phethod at work, yet we feel satisfied in pronouncing it remotely different from that of Mr. Pilbrow's. M. Chameroy's has a number of tabes, Mr. Pilbrow's has only one. M. Chameroy's has a valve, which requires considerable care in managing; Mr. Pilbrow's has no valve along the propulsion tube. M. Chameroy's plain connects the moving power indirectly. We refer our readers to our Numbers for March 29 and April 5, for a full description of Pilbrow's invention, which they can compare with the following description of M. Chameroy's, which, though shortly published by us, in October last, we now give in more minute detail, as it not only has received some modifications since our previous notice, but has elicited, in connection with Mr. Pilbrow's, considerable attention of late; and we are fully satisfied that our readers will, on a careful comparison of the two, admire Pilbrow's invention for its extreme simplicity, while they will also see that the unmerous agents, and great complexity, of M. Chameroy's, at least appear objections to its extensive adoption.

COMPRESSED AIR, AS A MOTIVE POWER, APPLICABLE TO RAILWAYS

M. CHAMEROY'S SYSTEM.

We have had frequent occasion to advert to the numerous proposition

M. CHAMEROY'S SYSTEM.

We have had frequent occasion to advert to the numerous propositions, broached from time to time, for modifying the present, or creating a novel, principle, adapted to the purposes of locomotion. The valuable labours of more than one practical engineer on the atmospheric system promise to render it, eventually, the most applicable for railway tavelling; and these, from time to time, we have sedulously laid before our readers, including the researches of several continental philosophers, and, under the impression that a detailed explanation of another system, lately introduced by an eminent French engineer, M. Chameroy, will, at the present moment, be doubly interesting, we are induced to give a succinct and popular description of its peculiar features and propositions.

It is well known that to M. Chameroy's researches, as an indefatigable engineer, is due one of the most useful discoveries of modern times—that of tubes in sheet-iron and bitunen—which, already applied to conductors of gas and water, is now proposed to be adapted to atmospheric railways. By the aid of his tubes, M. Chameroy transmits to great distances the power of stationary engines, and distributes usefully that power which produces the locomotion of waggons. The locomotive apparatus is thus ingeniously arranged:—A pipe of sheet iron and bitumen, of certain diameters, is placed in the ground, along the whole extent of a railway, and tested for ten atmospheres. This pipe is closed—that is to say, it has neither opening nor longitudinal valves, nor a valve for the supply of air: it is filled with compressed air, by means of stationary engines, either steam, hydraulic, or air. On this immense reservoir are placed branches, at distances of fifty to about one hundred metres; these branches, which end in the centre of the way, where they are solidly fixed, perform the office of pistons, and serve to distribute, at proper periods, the compressed air. The part of these branches which is fixed in the ground is furnished with a co The part of these branches which is fixed in the ground is furnished with a cock, carrying a lever; the other part, which passes above the surface of the ground, is composed of a pipe of rectangular sheet-iron, whose greater sides are parallel to the way. At the upper extremity of this flattened pipe is attached a gullet, at the top of which is affixed horizontally, and parallel to the way, a cylindrical tube, terminated between two cones, the one closed, and the other open, by means of several orifices, carrying, leathern gear. This disposition of the branches forms one of the most ingenious parts of this apparatus, as a novel means of transmission of the power of stationary engines. It allows of the application of compressed air to the locomotion of trains by the aid of a moveable apparatus attached to the waggons. This apparatus is composed of metallic tubes,

compressed air having no means of action on the fixed piston forming the point of support, its influence is solely directed to the entire surface of the anterior valve. It is then that the propelling tube slides under the circular gear, and drags on the train to which it is attached. When the posterior extremity of the propeller arrives over the horizontal tube, a pin causes the cock to shut.

The pipe being closed, the propelling tube quits the first branch, and advances in sower as it acquires speed; when it arrives on the second, the asterior valve is immediately raised by the closed cone; it slides on the horizontal tube, and closes again when it has passed the open cone. At the same instant the arm carrying the leather strap is directed by the lower than the same instant the arm carrying the leather strap is directed by the lower than the propelling tube of the propelling tube. horizontal tube, and closes again when it has passed the open cone. At the same instant the arm carrying the leather strap is directed by the lower guide; it passes, together with the strap, in the horizontal gullet, and is immediately replaced by the counterguide and by the piston. During this operation, the longitudinal opening of the propelling tube offers a free passage to the flattened pipe. As soon as the anterior valve has possel the open cone, and the valve reclosed itself, the pin placed at the high the propeller causes the cock to work; the compressed air escaping anewfrom the pipe, acts upon the anterior valve, and gives a new impulse to the propelling tube, as well as to the train to which it is fastened. By means of these successive impulsives the train runs along the line without the propering tube, as well as to the train to which it is fastened. By means of these successive impulsives the train runs along the line without interruption. To regulate the speed of the train, and to take more or less motive power, the cocks, by means of the pins, are opened more or less. To stop, the effect of the pins is neutralised, and a restraint is employed upon them. When the train is on the point of arriving at its destination, its line is changed, so as to put it on that of its return and on one of its branches. To return, the valve is closed which was open, and that opened which was closed.

The advantages of the system are first connection to the context of the context of

The advantages of the system are—first, economy in the construction of the line, inasmuch as the propeller does not cost a sixth of the locomotive; the cost per straight metre would be about sixty francs for a double line of the cost per straight metre would be about sixty franes for a double line of railway: secondly, the operations can be performed at the same time on two lines with only one pipe: thirdly, this pipe being placed underground will be protected from injury; its keeping in repair will be nothing, and its passages can be easily kept clear: fourthly, this pipe, which is composed of tubes of sheet-iron and bitumen (which alone perfectly retain the compressed air), forms an immense reservoir, whence can be drawn at will the locomotive power nacessary for the demands of the operation; this power can be slackened, decreased, or neutralised, in order to descend in clinations, or stop the progress of the train—in fact, this power cannot be employed but to a useful purpose: sixially, the disposition of the propelling tube, which is articulated, will permit of the overcoming of curves of small radius: seventhly, it will be capable of working several trains successively on the same line, and, consequently, of readily dispatching train for assistance, or other urgent cases: eighthly, in opening the cocks, mor or less, the power and speed can be increased, so as even to ascend steep gradient: lastly, this system of locomotion does not present one of those dangers and inconveniences which exist with locomotives; there will be no fear of explosion or fire; the disadvantages and inconvenience of the gradient: inser, the disadvantages and inconvenience which exist with locomotives; there will be no fear of explosion or fire; the disadvantages and inconvenience of the steam, smoke, and cinders, will be wholly removed and obviated.

steam, smoke, and cinders, will be wholly removed and obviated.

Of all the systems of atmospheric railways which have lately occupie the attention of the public, that which we have above described appear to command the greatest notice, chiefly, no doubt, from the interesting communication of M. Arago to the Academy of Sciences respecting it merits and details. Two commissions have been appointed, the one is the Academy, and the other, more recently, by the Minister of Public Works, each of which are to make a separate report on the advantage of this invention. M. Chameroy has constructed a model, 135 metres it length, with which he can obtain a speed off ten metres a second. Many of the first engineers and practical scientific men have viewed it in operation, and he has since sent it for the use of the commissioners inquiring into its merits.

THE ATMOSPHERIC RAILWAY SYSTEM.

At the Institution of Civil Engineers, on Tuesday last, the discussion of the Atmospheric System of Railways, which had occupied the attention of the Institution for the two previous evenings, was renewed, by Mr. Bidde presenting a statement, in a tabular form, from which he clearly deduced the tractive force which the atmospheric system was capable of exerting over a pipe of a mile in length, and by taking from this the losses consequent on the friction and gravity of the train, showed that which was due to the resistance of the atmosphere, &c. His statements were proved by reference to the avowed experiments of Mr. Samuda. His investigation also enabled him to render conspicuous the loss arising from the friction of the air within the tube, which accounted satisfactorily for some apparest discrepancies in the acceleration of velocity of different trains over the mile at the send of the tube. His views on this point were confirmed by the experiments of Mr. C. H. Gregory, and those published in the report of Mr. Mallet. The discussion of the basis of the deductions, reported by Mr. Stephenson, was then disposed of, with the decided and, generally prevailing admission of its truth. The commercial part of the question was then entered upon, and the case of the Norwich and Yarmouth Railway was quoted as one of the most simple character, and one which would be of frequent occurrence. It was shown, by facts and authenticated statements of first cost and expense of working, that if Mr. Samudals estimate for the apparatus, as applied to the projected Cavytion line, was diminished by half, or from 6000L to 3000L per mile, the mere interest of the outlay at 5 per cent, would amount to 10L per mile per annum more than the present cost of locomotive power on the Norwich and Yarmouth line. In had been stated before the Atmospheric Committee of the House of Commons, that a much smaller apparatus could be constructed to do the work of this line. The fallacy of his assumption, and the calculat THE ATMOSPHERIC RAILWAY SYSTEM.

of this line. The fallacy of his assumption, and the calculations, were analysed and strongly exposed, inasmuch as it was shown to be mechanically impossible for the contrivance to peform the amount of work for which it was designed, and that that work was not analogous to that which was required by the traffic of the Yarmouth and Norwich Raidway, inasmuch as the bulk of the traffic was, of necessity, by particular trains, which rendered their weight about four times greater than had been estimated for. The case of the necessity of a swing bridge, of 100 feet, opening for the passage of vessels, as at Yarmouth, was suggested as a mechanical problem, upon which the adherents of the atmospheric system might be advantageously exercised. On reverting to the loss arising from the friction of the air in the pipes, two of the principal mining engineers of England characterised it, from their experience in the ventilation of mines, as being of vital importance to the atmospheric system. The speed attained on the South Shields and the Newcastle and Carliste railways, with the usual number of stoppages, were given, and the deduction substantiated, that a velocity of upwards of thrity miles per hour was attained, within a distance of three quarters of a mile from the starting point. Experiments were also quoted, showing, 1st, that a locomotive train could be stopped in a shorter distance than a train on the atmospheric railway, the net weight, speed, and number of brakesmen, being identical; and 2ind, that the engine and tender alone were stopped in one-fourth of the distance that the train alone was stopped. The minor conveniences, of the diminution of dust and noise in the case of the atmospheric system, were incidentally alluded to, but were admitted not to be of great importance.

IMPROVEMENTS IN THE TRACTIVE POWER OF THE

The locomotive engine, with its enormous powers and rapidity of motion, is still, as regards its traction, a very imperfect machine, and it is that the processor Vignoles, in his lectures "On Railwoods". ingenious parts of this apparatus, as a novel means of transmission of the power of stationary engines. It allows of the application of compressed air to the locomotion of trains by the aid of a moveable apparatus attached to the waggons. This apparatus is composed of metallic tubes, united to each other by flexible joints, in such a manner as to form only one articulated tube, to which is attached below a longitudinal opening, which is closed inside by a strap of leather, discharging the duty of a valve. Free in its entire length, this strap is supported at each end by two arms, rivetted at the extremities of the articulated tube. At each extremity of this tube, whose partitions are strengthened by stays, there is moreover attached a metallic valve, placed obliquely, and working on a rivet. At the anterior and posterior parts of the tube are allow of the play of these pins and the valves. This tube so constructed is supported by wheels attached to a moveable train, or fixed under the astionary piston, forming part of the first branch. The conductor then a stationary piston, forming part of the first branch. The conductor hand stationary piston, forming part of the first branch. The conductor hand the original construction of the astionary piston, forming part of the first branch. The conductor hand the original construction of the compressed air escaping immediately from the pipe, traverses the diarted pope, the horizontal tube, and the original construction of the propelling tube, comprised between the closed valve and the gear. The n forming the ire surface of les under the When the ontal tube, a

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being formed of other segments of hard wood, such as teak or African oak, firmly bound and boited together with nuts and screws, through a circular iron band, thus binding the whole of the pieces forming the periphery together at the joinings with the pieces of tough wood radiating from the centre. The iron bands on each side are also divided into segments, in order to afford facility for taking to pieces and inserting new wooden sections when required, and thus enabling any portion to be repaired with ease and expedition; the circumference which is to bear on the rail is then stamped with transverse grooves, and coated with a preparation of marine glue and sand, which combines great hardness and toughness. The rails on which it is proposed these wheels should run are continuous lines of wood capped with what is termed the "edge rail," flattened towards the outside of the sleepers, and slightly inclined inwards, and giving a width of bearing surface of from five to eight inches as circumstances may require; this increased breadth of bearing surface will more equally disperse the weight on the rails, and render the wear and tear more uniform, while there is more elasticity, and considerably less expense than where the rails are constructed entirely of from. With respect to the wear and tear of the surfaces of wheels of this construction, it is considered that on the engine completing the day's work, the preparation of marine glue and sand should be applied, which could be done in a very short time, and the wheel being properly coated in the first instance, and these applications continued, the fibres of the wood would be prevented from coming in contact with the surface of these wheels are as follows:—

A more equal distribution of the weight of the engine on the rails.

A great increase of the tractive force of the engine on the rails. n one of its

from coming in contact with the surface of the rail. The advantages which the patentee calculates upon from the use of these wheels are as follows:—

A more equal distribution of the weight of the engine on the rails.

A great increase of the tractive force of the engine.

The capacity of ascending much steeper gradients.

Security from diminition of the tractive force consequent on the vicissitudes of weather. Greatly reduced expense in construction of the railroad—cuttings, unaellings, and deep embankments being less necessary, and a less quantity of tron being required for the rails.

A smoother and more equable motion of the capine and carriages, from the less rigid character of the rail.

Less injury to the engine and carriages from concussions, and, consequently, less expense in maintaining the efficiency of the whole system.

The plan proposed, we think, offers considerable advantages, but in the absence of any data resulting from actual experiment, we are not, of course, embled to state the extent of those advantages in proportion to the plan at present in use; the subject is, however, of the utmost importance, and well worthy the consideration and even experimental investigation of those interested in the numerous lines of railroad now in contemplation.

Banks's Mode of Renewing the Working Surface of Railway Wheels, instead of the old plan of merely turning the surfaces true, is daily proving that the amount of saving which was first stated by the patentee would be the result of his plan, falls considerably short of the actual facts. From the most accurate experiments which increased experience has enabled him to make, it is confidently stated that 55 per cent. Is the minimum average saving which is affected by their use, and when the enormous item of expense which wheels make in the amount of railway expenses, is considered, the importance of the subject for the consideration of all railway boards is manifest. There are, however, we believe, now comparatively but few lines where the principle is not

tentee's most sanguine expectations, and one which has given every sansfaction wherever it has been adopted.

David Davies's Railwax Carriage Break.—At the Society of Arts, on Wednesday evening last, a paper was read, descriptive of a new railway carriage break, the invention of Mr. David Davies, and which we may safely state possesses advantages found in no other yet introduced, and which, at the same time, is free from all the serious objections hitherto urged against the old carriage breaks. Mr. Davies having explained the mechanism of his invention by a large diagram on the wall, Mr. Rotch, V.P., made some interesting and judicious remarks on the subject; to prepare his hearers for appreciating the advantages of this invention, he explained to them the action of the old break-viz., that of a wedge being drivan down between the peripheries of the fore and hind whoels; the instant this action took place, a powerful strain was produced on the end of the axle, against which one side of the nave of the wheel was pressed, and the free side of the circumference still having an inclination to revolve, a twisting action was the result, which eventually produced a fracture of the axle. Another objection was the shaking and groaning noise to which the passengers in every break carriage were subject, causing considerable fear among the females, and inducing all parties who had been at all experienced in railway travelling to avoid the break carriage as they would a perfect nuisance. Mr. Davies's break removes all these objections; it consists of a series of eight levers, placed beneath the framework of the carriage, one end of each projecting to a level with the circumference of the wheels; these levers each true on a fulcrum in the outer rail of the frame—thus making the short arm of the lever that which grips the wheel, and the long one projecting within the framework; these long arms are connected to two cross levers, which are acted upon by a diagonal bar, which, being put in motion by a winch handle on the roof, t

value of this break, and an opinion expressing that, by confining the cost to a moderate amount, they must make their way in all railway estbalishments.

Rahlway Improvements.—The numerous proposals for railway extension in all parts of the country now before the public, appears to be met by a spirit of scientific research and mechanical improvement in the formation of fines and modes of working, and these inventions, let them be of what kind they may, are well worthy the attentive consideration, not only of parties interested in new lines, but of those connected with the established companies. Many inventions which have already been before the public, and others which are daily being secured by patents, will, no doubt, when fully developed, effect a great change in the principles of railway travelling, tending to secure the maximum rate of speed, with the most perfect safety and judicious economy. A description of one important improvement—viz., railway breaks—will be found in another column, and we are happy to find, that a model on Prosser's patent hevel safety wheel plan is about being laid down on Wimbledon Common, on a large scale, to give the public an opportunity of fairly judging of its safety, speed, power, and the great saving effected by this plan, both in the first cost of a line, in its maintenance afterwards, and the proportionate low amount of the working expenses. This experimental line will be two miles in length, one portion composed of iron, and the other of wood, to shew its applicability to both kinds of rail; it will contain gradients from 1 in 50 to 1 in 120, and a curve of half a mile in length, with a gadius of ten chains. Our railway readers will call to mind our several notices of the working of a small experimental line, laid down near Vauxhall-bridge about twelve months since, which, though very short, and worked under various disadvantages, gave undoubted proof of possessing inherent merits, which time and experience would develope. We are glad to find that the Patent Railway Guid

RAILROAD INVESTMENT BANK.—We perceive that a banking company is about to be formed for the investment of money in railroad loans and shares, to be registered provisionally, and incorporated by Act of Parliament. The project is founded on the assumption, that railroad affairs are in the aggregate productive of large profits, while taken singly they are hazardous, and their success contingent; and that their capital, applied as one concern, would have returned a high rate of interest, and also increased considerably. The foundation of three of the veins:—

tion of a bank to effect this is therefore deemed desirable, inasmuch as railroads are permanent objects of interest to the community; and being great subsidiaries to commerce, and objects of safe investment, demanding the protection of government, and therefore well worthy of any steps which would extend its sphere of usefulness and profit.

RAILROADS IN SPAIN.

RAILRUADS IN Section of the Letter of "C. L. W." from last week's Journal.]

From a very distant period we have mention of copper and lead mine in this principality, but we have no data to prove the exact quantity produced, although, in 1780, we have the following account, from Hoppensack, of the average amount of produce of the mines in Spain:—

	Kilogrammes.	Value.	
Mercury		£187,500	
Lead			
	9,000,000		
Copper		1,250	
Antimony			
Zinc	125,000	2,000	

This statement is far below their present realisation. The following mines alone, the property of the monarchy, are estimated in value by the Government as follows:—

Lead mines of Linares.

Lead mines of Linares.

Quicksilver mines of Almaden 216,000,000 2,350,000 Copper mines of Rio Tinto 29,082,000 302,937

Copper mines of Rio Tinto 29,082,000 , 302,937

Total 24,740,437

Doubtless, the Asturias may lay claim to a great deal of the produce in Hoppensack's statement, but the sinews of her future importance are in her inexhaustible quarries of ironstone and beds of coal; by these she will fulfil the prediction of a talented writer—"That the Asturias will one day, and not long, be one of the most important provinces in Spain."

There are, as I stated in my previous letter, several collieries at present at work, from which coals, to the amount of 50,000 quintals yearly, have been sent to Gijon for exportation. The principal portion of this quantity has been supplied from the mines of the late M. Aguada, who considered this business sufficiently profitable to lay down a line of road from them to the coast, a distance of twenty-two miles, at his own expense. Had he, instead of making this road for common traction, constructed a railroad, he might have defied competition with England. The collieries of M. Aguada, as well as the others, are of minor importance compared with those of the Asturian Mining Company. As the projected Royal North of Spain Railroad will pass close to their mines, they will, of course, be a main support in traffic to the railroad: I will, therefore, proceed to their consideration. To give your readers some statistical opinions of the enormous fields of coal belonging to this company, situated at Mières, Tudela, and La Foz, I will select quotations from actual surveys, from a work of M. Schultz, Director-General of Mines, on the coal formation of this neighbourhood:——The coal hasin of the centre of the Asturies in the

consideration. To give your readers some statistical opinions of the enormous fields of coal belonging to this company, situated at Mières, Tudela, and La Fox, I will select quotations from actual surveys, from a work of M. Schultz, Director-General of Mines, on the coal formation of this neighbourhood:—

"Fifth Formation.—The coal basin of the centre of the Asturias, in the jurisdiction of Riosa, Pola de Lana, Mières, and Tudela. This basin forms a most extensive group, having more than sixty distinct seams, generally of the very best quality, approaching to the vertical, and extending several leagues, and at a considerable elevation above the neighbouring rivers. This central group of the carboniferous formation of the Asturias is so rich and extensive, that it may fairly be called inexhaustible for many ages—even should the exportation amount to a million tons per annum."

This subject is more fully entered into in a report I have been favoured with a sight of, from the engineers to the Asturian Mining Company—Messrs. Mamby Brothers.—"The extent of this coal formation far exceeds those of Staffordshire or Wales; in length it reaches from the frontiers of France to those of Portugal, and in breadth we have ascertained that it is at least eight or ten miles, and, probably, much more; but it lies, generally speaking, too high in the mountains and too far from the sea to be worked in the present state of viability of this country, or with such means as a private company could bring to bear; but that portion of the coal-field between Siero and Riosa (including Tudela, Mières, Siero, Riosa, La Fox, and Lama) forms an exception, inasmuch as it approaches much neare to the sea than any other part of the northern coast of Spain, so far as we have been able to ascertain. In addition to the principal coal-field there is another coal formation, much more limited in extent and of very inferior quality, but much mearer the sea, at Arnao—a little to the west of Avles, and the reader of the proposes—they cannot come into co

45·69 9·142 45·111

ı	Analysis of Ironstone,			
I		44·2 31·0	= iron	34.4
I				
ı	Carbonic acid and water			
ĺ	Carbonaceous matter		-99.3	
l	Loss		.7	
I	Analysis of Three Specimens of Iron Oves. Specimen marked No. 1.		100.0	
	Percaide of iron, with a trace of manganese		= iron	59-9
	No. 2.	00.00		
	Peroxide of iron, and a trace of manganese	54·0 40·0	- iron	37.8
l	Water	6.0		
I	No. 3.	00.0		
ŀ			= iron	55.5
ı	Alumina, with a small quantity of silica	8.0		
ı		12.0		
ı	The same a second most as the same and the s			

These statements will prove facts before stated, and must convince your readers of the value of the Asturias as a mineral country, and the great traffic which must necessarily accrue to the Royal North of Spain Railway from these sources alone, seeing that it will pass longitudinally through a coal and iron district of eight miles and more in length.

In apologising to you for the length of this letter, I will close this subject for the present. In justice, however, to two statements put forth by your correspondent, it will be well to notice, that the Government Trubia furnaces (situated a little to the west of Oviedo) were built forty-five years ago, and were used for a long period; there are now at least 2000 tons of cast-iron there. In reference to the following remark on the patrons of the above railway ("the first on the list, Don Manuel de Gaviria, Vice-President of the Bank of Isabella, in a letter, dated the 27th of March, published in El Clamor Publico, on the 28th, denies all participation in the projected scheme—possibly we may hear of other seceders"), I would refer your readers to the official advertisement, which appeared in the Times of the 7th April, in answer to it; this shows "the vacancy caused by the retirement of Don Manuel de Gaviria has been most satisfactorily filled by the selection of Senor Carriquiri, deputy and banker." The port of Aviles, one of the termini of this line, is a good natural harbour, and will not require a considerable sum of money to render it one of the finest and safest ports on the coast of Biscay, as it possesses no rocky bar or other difficult obstacle.

RAILWAY SIGNAL LAMPS.

ports on the coast of Biscay, as it possesses no rocky bar or other difficult obstacle.

RAILWAY SIGNAL LAMPS.

Sir,—Observing in the Mining Journal of the 5th ult., a description and wood cut of a signal lamp, allow me to observe, that such lamp is neither new or original; but has been in existence above five years, and was put aside by the Edinburgh and Glasgow Railway directors, to make room for a far superior one, by the same manufacturer. The lamp in question is similar to the common circular hand signal lamp of English make, with the plan of another party attached thereto, being merely capable of showing three lights (two coloured and one plain) in one direction. Now, Mr. Editor, I beg to call your attention to the fact, that there is in existence a "new" signal lamp, which, however, has not been patronised at the head quarters of the railway in question, and, of course, whatever its merits in a public point of view, stood no chance in that quarter. Now, this lamp will give three signals to one of the above-mentioned old lamp, and at one and the same moment will present from four fronts either of three coloured signals—a plan which, if the police and plate layers' lamps were on the same principle, they could intimate both up and down the line, and in cross directions, the necessity of stopping any of the trains which were approaching, and thus prevent danger. In fact, this lamp is well worthy the attention of all railway boards, for its economy, facility of action, and safety.

Greenock, April 26.

THE IRONMASTERS, AND THE GRAND JUNCTION RAILWAY.-It will b remembered by our readers, that the Grand Junction Railway Company lately proposed to form a branch of thirteen miles extent, to connect the towns of Wednesbury and Dudley, while the Birmingham Canal Company have likewise broached a proposition for constructing a railway from Birmingham to Wolverhampton, with a branch to Dudley, thus effecting the same purpose, but with greater convenience to the latter town, as it will lessen the distance to eight and a half miles, instead of thirteen, as fixed on by the former company. As either project will most materially affect the interests of the extensive factories in the neighbourhood, the result of the rival claims of the companies is, as might have been expected, watched with intense anxiety by the proprietors there. In unison with this feeling, a numerous meeting of the iron and coal masters of the district was held at Birmingham, on the 25th ult., to discuss the merits of the two lines, and adopt such measures as might promote the one they should consider preferable. Philip Williams, Esq., being called to the chair, opened the proceedings of the meeting by reading the circular, which recommended that the iron and coal masters should use their best endeavours to support the line of rail proposed by the Birmingham Canal Company, to be constructed between Birmingham, Dudley, and Wolverhampton, and to resist, with their most streamous expositon, the Grand Junction scheme, for running the longer branch, by a much more circuitous route, between Wednesbury and Dudley.—R. Scott, Esq., M.P., observed, that a resolution had already been adopted by the Canal Company, setting forth the necessity of a railway through those particular districts, and enjoining their agents to introduce a bill, next session, into Parliament, to meet the requirement, at the same time expressing their determination to carry out uncompromisingly their undertaking, notwithstanding the properties of any other company. emembered by our readers, that the Grand Junction Railway Company triets, and enjoining their agents to introduce a bill, next seasion, into Parliament, to meet the requirement, at the same time expressing their determination to carry out uncompromisingly their undertaking, notwithstanding the opposition of any other company. Believing in the sincerity of these professions, he trusted the meeting would not separate, without substantially evincing their approval of the Canal Company's schemes.—
Thomas Badger, Esq., as an ironmaster of Dudley, and having bad several opportunities of observing the liberal conduct invariably pursued by the Birmingham Canal Company towards the important trade of those districts, would support them strenuously in their present measure, more especially as it promised to be a great benefit to the locality; while that of the Grand Junction Railway, originated only for private interest, and, conferring not the smallest advantage on Dudley, was wholly unworthy of their acceptance. He concluded by moving a resolution to the effect, that the Grand Junction Railway branch, from Fryar's Park to Dudley, be opposed, and a petition against it prepared and signed.—Mr. Sparrow, in seconding the resolution, avowed his opinion, that the Canal Company's scheme was one of the most favourable that had ever been brought before the district, and promised to entail incalculable advantages on all the works in the neighbourhood.—Mr. Thorneycroft moved that Messrs. P. Williams, Sparrow, Badger, and himself, should be appointed a deputation from the iron and coal masters of the district, to conduct the opposition against the Grand Junction branch.—The thanks of the meeting being then voted to the chairman, the meeting separated, RAILWAY TRAFFIC RETURNS.

The following is the increase in traffic receipts, for the undermen-tioned twenty-two railways, during the sixteen weeks of the year ending 25th April, compared with those of the corresponding period last year:—

gham and Gloucester and Birkenhead Edinburgh and Glasgow.
Glasgow and Greenock.
Glasgow, Paisley, and Ayr
Grand Junction
Great North of England
Great Western 2576 2148 2255 4641

RAILWAYS IN IRELAND.—The rapid extension of railways, at home and abroad, is sufficiently evidenced by the advertisements which appear in our columns having reference to new undertakings, and while we do not express regret that capital should be taken out of this country to advantage other nations we it is exceptionary of the country to advantage other nations were it is exceptionary of the transfer of the rations are the country to advantage of the rations are the country to advantage other nations are it is exceptionary of the rational area. express regret that capital should be taken out of this country to advantage other nations, yet it is gratifying to find that Ireland is not neglected,
and that there is a union of interest, at least, displayed in this particular,
where capital is required. We, doubtless, claim to ourselves (that is to
say, on this side the channel) a greater accession of wealth, or surplus
money, than, we believe, would for a moment be assumed as being possessed by,or, even so, likely to be appropriated to the advancement of Ireland
by either residents or absentees, and delighted are we to find that the spirit
abroad for embarking in railway undertakings has led to the application
of capital to the "Sister Isle." Labour, and that honest labour, is to be
acquired at an easy—nay, we might almost say, at an insignificant—cost abroad for embarking in railway undertakings has led to the application of capital to the "Sister Isle," Labour, and that honest labour, is to be acquired at an easy—nay, we might almost say, at an insignificant—cost; while the natural facilities afforded by the country, and the contiguity, in the greater portion of the lines, to stone quarries, and the absence of those extremes as apply to the cuttings and embankments, as also the gradients—the latter being less influenced, from the comparative low value of property intersected—lead us to believe that vailways in Ireland hold out far more prospective advantage than many in England, Scotland, or Wales. Perhaps the latter nearest approaches Ireland, as by the formation of lines of railway an intercourse is given, and districts, now almost unknown to each other, become as neighbours, from the facility of communication afforded. We have on several occasions referred to railways in Ireland, and this week have to record, in addition, one proposed from New Ross to Carlow, with, as we are given to understand, a branch to Thomastown. The line will extend over something like thirty miles, the capital required being estimated at 300,000L, in shares of 20L each, with a deposit of 1L 10s. per share. We think the capital somewhat limited, for although 10,000L a mile may do the work required, yet it is well to be on the safe side, and there can be no difficulty in getting an old fifty. Those who know the district, will at once admit the importance to be attached to the line, as affording the means of conveyance of the agricultural produce to a shipping port, not to advert to its locality to the Castle Comer and Queen's County, or, as it is generally termed, the Kilkenny coal district. The river Barrow at present is the medium of transit of butter ("Carlow butter"), flour, bacon, corn, &c., which would be transferred to a railway traffiej; the population in the vicinity of Carlow and other points, is dense, and no reasonable doubt can be entertaimed, but that the line, once f

will be a blessing to that part of Ireland.

WATERFORD, WEXFORD, WICKLOW, AND DUBLIN RAILWAY.—The object of this line is to connect the metropolis of Ireland with the important ports of Wexford, Waterford, and Cork, and to afford to the inland counties the most direct route to South Wales, the south of England, and to London. It was brought under the consideration of the Board of Trade last year, but at too late a period to admit of all the necessary details being furnished to enable the Board to give their final decision upon the project, it was, therefore, recommended to be postponed for another session; but in their report they publish an extract from that of the railway commissioners of Ireland, recommending the coast as the best route from Dublin for a line to Wexford, in the event of the resources of the latter county being deemed sufficient to justify the undertaking: and this opinion is coupled with one from the Board of Trade, that should certain contingencies occur, the Wexford and Waterford line, through Wicklow and Arklow to Dublin, would be preferable to any other, especially as its constitution is so unexceptionably respectable. This opinion is the more fully warranted and confirmed when it is considered, that, the line will give to the rich agricultural counties of Carlow and Kilkenny a remarkable facility for the transmission of their produce, through the important maritime towns of Wexford and Waterford to the great market for Irish provisions afforded by the dense mining populations of South Wales and Scotland, as well as to the inland and manufacturing districts of England and the metropolis, and will facilitate the developement of the well-known mineral resources of the county Wicklow, abounding in copper, lead, and other ores, and afford them a ready access to the best markets; and, when we remember, how very imperfectly, at present, the rich and varied resources of Ireland have been developed, and how highly distinguished the district through which the proposed Waterford, Wexford, Wicklow,

Wicklow, and Dublin line will prove both beneficial and profitable.

BELFAST AND COUNTY DOWN RAILWAY.—This company was originally formed to construct a railway from Belfast to Holywood, and from Belfast to Comber and Newtownards; but, in consequence of communications made to the committee, of the great advantages of an extension of the line to Downpatrick, it has been resolved to accede to this expressed opinion, and complete the entire line to that town, in all a distance of about thirty-four miles; a railway communication being thus opened between Belfast and the most populous and enterprising portion of the county Down. The great traffic between these important districts, hitherto divided between several precarious modes of communication both by soa and land, will be thus concentrated, and pass uninterruptedly on this line, thus at once greatly enchancing the interest of trade there, and the profits of the company; at the same time, equally undoubted advantages must ensue, by the opportunities afforded on the portion of the line from Comber to Newtownards, to the entire traffic of the rich and densely populated district of the county Down. From Newtownards there is every facility for an extension to Bangor, thus forming a ready connection with the greater part of England and Scotland, to the coasts of which, railways from the interior are being now constructed. The capital necessary for the whole project is estimated at 400,000¢, which it is proposed to raise by the issue of 8000 shares at 51. each.

Great Western and Wycombe Junction Rahlway.—The object of this

at 400,000L, which it is proposed to raise by the issue of 8000 shares at 5L each.

Geneat Wespers and Wycombe Juschon Rahway.—The object of this line is to afford to Wycombe and a large population in South Buckinghamshire the important advantages of railway communication with the metropolis and other parts of the kingdom. The town of High Wycombe is situate on the high road from Lendon to Oxford and Cheltenham, and is the market for an extensive agricultural district, the produce of which has long contributed to the supply of the metropolis. In the article of coal a large traffic may be fairly anticipated, as the inhabitants of the districts through which the line will pass, amounting to upwards of 40,000, are at present provided with this commodity under the most dissalvantageous circumstances, and at a consequent high rate; while, by the proposed rail, a constant supply of the best scaborne, as well as Welsh and Irish coal, would be effected at a greatly reduced charge. The company reserve the right to enter into an engagement to lesse the line, when completed, to the Great Western Company, or to make such other arrangements as may subsequently appear advisable.

CLARENCE RALWAY COMPANY.—At a meeting of the proprietors of this

CLARENCE RAILWAY COMPANY.—At a meeting of the proprietors of this company, held at the George and Vulture Tavern, Cornhill, on Tuesday, the 29th ult., called for the purpose of authorising the issue of Government loan shares, to raise capital for paying off the 70,000. due the Exchequer Loan Commissioners, the plan proposed by the committee was adopted. This sum of 70,000. is to be raised by the issue of 7000 shares, of 10. each, bearing interest at 4 per cent, to have priority over all the other shares, and to be divided provate among the shareholders, by which plan the difference in the interest will be saved and the sum by the former arrangement, paid off yearly to the commissioners, will at once be left for distribution among the proprietors.

PATENT TILE-MAKING MACHINE.—Among the models in the gallery of the Royal Polytechnic Institution, there is a patent machine for making tiles. This machine is portable, and can be taken to pieces, and put together again, in a very short time; is worked by h.ind, water, or steam-power, and is complete within itself. The mould for forming sockets on the pipes is new, and perfect in its operation. From the simplicity of its horizontal movement, the machine is not liable to derangement; and, as it throws itself out of gear as soon as all the clay is worked out of the container, it is not easily injured. The fixed container is expeditiously filled; and, being worked by one man or two boys, is capable of producing from 5000 to 7000 desin-tiles, of the ordinary size, per day. One man is required to work it, and one boy to take off the pipes or tiles. All stones in the clay are crushed to pieces, without retarding the movement; and these are the only machines hitherto offered to the public for which, with most clays, no previous preparation is required—an expense generaly greater than the cost of making. The machine, slightly altered, also makes bricks equally well.

Original Correspondence.

SMART'S PATENT CONVEX PADDLE FLOAT.

SIR,-I perceived in the Mining Journal, of Saturday week, a notice of an application of Mr. Robert Smart's patent convex paddle float to the Rose, a fine ship of 220 horse-power, trading between Bristol and Cork, and was much pleased with the intelligence. The paddle-wheels of steamships have not hitherto had that degree of attention bestowed on them, of which they so much stand in need; although considerable ingenuity and mechanical talent have been displayed in the construction of wheels with rotating floats, the rotation being effected by means of radii, or arms fixed to the axle of the wheel, for a more particular description of which, I beg to refer your readers to Lardner's admirable Essay on the Steam Engine. The object of this invention is, to do away with back water, and cause the float to act at its most efficient angle, during its progress through the fluid, all which has been, in a certain degree, attained; but the complexity thus necessarily introduced, much more than counter-balances the good effects that would otherwise result from the use of revolving floats. Mr. Smart's patented invention, on the contrary, is particularly distinguished by its simplicity, which has secured for it adoption, in preference to any other existing plan. It consists of a curved or convex piece of wroughtan application of Mr. Robert Smart's patent convex paddle float to the Smart's patented invention, on the contrary, is particularly distinguished by its simplicity, which has secured for it adoption, in preference to any other existing plan. It consists of a curved or convex piece of wroughtiron of the necessary area, and securely fastened to the paddle-rings, in a manner so as to secure the greatest stability. The complete success of this float, as demonstrated in the case of the Shamrock, the speed of which steam-ship has been accelerated by, at least, one and a quarter nautical miles per hour, and other important advantages necessarily attendant on an increase of speed attained, should be considered as affording sufficient, indeed most convincing, proof of its siperior qualities. It should also be recollected that the success attendant on the attempt made by the commander of this steam-ship, to relieve the Roseius liner, from her most perilous situation on the Arklow Bank, has been considered to be to a great extent attributable to the peculiar effectiveness of the convex metallic float, with which that steamer had previously been provided. The Shamrock has now steamed upwards of 35,000 miles since the application; of Smart's patent float, and not the slightest accident has occurred to the wheels, or the least derangement of the floats taken place. Such extraordinary and unprecedented stability, which may be ensured at so very trifling a cost, added to the greatly-increased velocity to be acquired by its use, should be sufficiently convincing to the proprietors of all steam-ships, fitted on the paddle-wheel principle; and whilst on this subject, let me add, there appears but little chance of the paddle, when aided by these most important adjuncts, being superseded—at least, in steam-ships performing coasting voyages—for, whilst the screw, for ocean-going steamers, may offer some advantages, its competitor, the wheel, offers many more substantial ones, at least, to all steam-ships engaged in general trade, and liable, oceasional voyages—for, whilst the screw, for ocean-going ste

IMPROVEMENTS IN STEAM NAVIGATION.

IMPROVEMENTS IN STEAM NAVIGATION.

Sir.—There is yet great improvement to be made in the construction of steam-boats, both as regards draught and velocity of sailing. It is obvious to me, that, as regards the latter, the paddles are placed too far forward; were they midway between the stem and the stern of the vessel, not only would the sailing properties be increased, but the vessel be turned round more rapidly, and in a less space. The further the paddle-wheels are from the stern of the vessel, a greater weight is to be drawn through the water; this cannot be better illustrated than by placing the paddles still nearer the stem than where they are at present fixed, and then calculate the additional drag of the vessel through the water. By the improvement suggested, an engine of less power would be required.

R. S.

ADVERTHERMENT.]

ment suggested, an engine of less power would be required. R. S.

Newcastle April 19.

[ADVERTIBLEST.]

X TO THE SHAREHOLDERS OF THE REVERSIONARY INTEREST SOCIETY.

LADIES AND GENTLEMEN,—It is with reluctance that I trouble you with this address, but the newspapers having taken notice of the extraordinary circumstances under which your directors have, so far as they can, removed me from my office as your solicitor, I am compelled to lay those circumstances before you, my own professional honour, as well as your pecuniary interests, being deeply involved in the result. In the autumn of 1848, I received the instructions of your directors to solicit an Act of Parliament for extending the capital of the society; I followed these instructions, and, with the assent of the directors, addressed to each of you a circular, offering such explanations as you might require. I prepared the bill, and submitted it to the counsel of the society; included two clauses, having for their special object the protection of the shareholders; the purpose of the one was to enable absent proprietors to vote by proxy, there being no less than 65 ladies, and 183 residents in the country, out of a list of 328 shareholders. The other clause was to secure an equitable apportionment of the future profits of the society among the old and new shareholders. In consequence of the circular, many shareholders applied to me for information about the bill; among the rest were a gentleman holding exalted judicial rank, and Mr. Sidebottom and Mr. Cator, both of the Chancery bar. I received the draught of the bill, approved by counsel, and containing the proxy and appropriation clauses, on the evening of Thursday, the 15th of February, 1844. On the following morning, I caused the directors to be summoned to consider it, but they did not meet before Wednesday, the 21st of February, when, contrary to ray judgment, as well as to the judgment of your counsel, they expunged the proxy and appropriation clauses, and, substituting for them a future arrangement of not satisfactory to the meeting, and it was resolved, at an extraordinary general court, that the directors should reduce to writing their complaints against me, and allowing me fourteen days' time to reply, that both our statements should be printed, and sent to you for your information. I was not allowed to be present at this meeting, nor yet at a court on the 26th instant, which was called by the directors to rescind the resolutions of the first meeting, and which was numerously attended by their personal friends, though by a comparatively small part of your bedy—in fact, I have been debarred by the directors from every opportunity of meeting you, or of explaining to you the facts; nor have I, from first to last, been allowed any opportunity of being heard, or even been informed of the cause of complaint against me, but it has been industriously circulated, upon no better foundation than the preceding facts, that I have thwarted the directors—have endeavoured to set up a paramount authority to theirs, which must necessarily impede the successful operations of the society—and have violated professional honour, by betraying the confidence of my clients; acting upon these groundless assumptions, the directors have resolved to remove me, unheard, and (openly) unaccused.

In answer to the last and most serious of these accusations, I am willing to rest my defence upon the opinion of the present Chief Baron of the Court of Exchequer, given upon a full statement of the case. It is as follows:—

Guidford-street, March 20, 1844.

My Daan Sis Grosse,—The question yes have proposed to me is not a professional one, to be asswered as a lawyer, but to be responded to as a friend and gentleman. Under the circumstances disclosed in the case, I do not see how you could have acted otherwise than you did. The solicitor to the society is, I think, bound to consider the interests of all the members a decay. He is not the servant or slave of the directors merely, but

the adviser of the whole association; and in your case, being (as you were) the founder of the scheme, you had your own honour and character to protect, as well as a duty to discharge towards the governing body. You must accept this note instead of an answer to your case (which I return), and believe me, with much respect,

Most faithfully yours,

of the scheme, you had your own honour and character to protect, as well as a duty to discharge towards the governing body. You must accept this note instead of an answer to governing body. You must accept this note instead of an answer to the other charges, I reply that they are uterly groundless and imaginary; that in no instance whatever have I ever opposed or disobeyed the instructions of the board, whatever they might be; nor have I, for at least the instructions of the board, whatever they might be; nor have I, for at least they years past, ever been admitted or invited to any intercourse with the board, except to answer specific inquiries on questions strictly legal. The question, then, resolves itself into this—whether, when in the discharge of my professional duty, I have reason to believe that your interests are scrouly prejudiced by the conduct of the directors, I am, nevertheless, bound to remain silent, and conceal the fact from you; or whether I am bound by my retainer, while I obey the instructions of the directors, as your appointed agents, to answer the inquiries of you who are their constituents, upon the subject of your legal affairs I—in a word, whether I owe a separate confidence to them, operating, in my own judgment, seriously to your prejudice?—I admit to the fullest extent, nor have I ever disputed, that the directors are fully invested with powers to control and govern the affairs of your associated body, nor do they owe any deference to me, except so far as your legal interests are involved; but I derive my retainer from the same source from which they derive their authority. You appointed me your solicitor by your Deed of Settlement; I have been paid by your money, and having received both my retainer and my fee from you, I are bound by my professional oath, not only to protect your interests on every occasion on which I am professionally engaged for you, but to repudiate all confidence apart from you, or that may shackle my independence as your legal adviser. I most companies the ru

ation of "Original Correspondence," see p. 169.]

PATENT GALVANISED IRON COMPANY—THE QUEEN v. CRAUFURD,—Counsel aving been heard on both sides with reference to this case, to which we have more than once adverted in our columns, as determining the right of patent or otherwise, claimed by the defendants, we are given to understand, that the Attorney-General has granted his fiat, and has issued a writ of seize facias against the patent claimed on the part of the company.

NISTER-DALE IRON COMPANY.

Managing Director.

Bankers.—London and Westminster Bank, Lothburg.

Solicitor.—George Hume, Eaq., Great James-street, Bedford-row.

This company had its origin in the high protective daties, which in many cases amount to an absolute prohibition, imposed by the German Zollverein upon the importation of every description of foreign iron. For this purpose, extensive iron-works for the managinature of railway iron, bars, sheet-iron, nail rods, and other kinds of wronght-iron have already been crected, in the valley of the Nister, near the town of Hachenburg, in the Duchy of Nasam. Every care has been bestowed upon the construction of the buildings, which, it may be truly asserted, have no parallel in magnitude or design within the range of the Germanic Union; and nearly the whole of the machinery has been fabricated in England.

Duchy of Nassan. Every care has been exercised upon interest within the range of the Germanic Union; and nearly the whole of the machinery has been fabricated in England.

The company has acquired the possession of valuable mines of iron ore and coal, which are situated in the immediate vicinity of the works. The qualities of some of the iron ores are equal to those of Sweden, and can be converted into pig-fron of a very superior description. The company is about to erect blast furnaces, but as the pudding forge and rolling mills are now ready to work, and the demand for wrought-fron throughout Germany being immediate and remunerative, it is proposed to supply them for the present from the produce of the neighbouring furnaces. The excellence of the German pig-fron, which is made from charcal, and its aptitude for being wrought into the finer kinds of iron, are well known. The highly profitable manufacture of tin plate, wire, &c., for which the company works are fully adequate, is also in early contemplation.

Considering the advantages which the company possesses in its machinery, its locality, and its raw materials, and also in the cheap labour which it can command, it is estimated that the various kinds of wrought-iron produced at its works, will not exceed their cost in any of the countries excluded from the Union. As the marketable value of Iron in Germany is enhanced beyond that in those countries by nearly the amount of the proceeding the company cannot fail to derive a large return from the capital expended upon the best authority), that the demand for iron in Germany be inferred from the existing prices of iron in Egaland, and the probability (which has been stated upon the best authority) of the export trade, for some years to come.

From estimates in the possession of the directors, it is shown that the present contemplated "make" of the forge and mill will return a profit of upwards of 10 per cent. upon the capital already subscribed; and when the smelting-furnaces are in operation, an addition of 5

the valley of the Nister, and approach within a free yeards of the company's works.

A communication will thus be opened on the one side with Cologne, the terminus of the Berlin, Rhenish, Dutch, and Belgian lines (and by means of the latter with the French railways), and on the other with the Wiesbaden and Frankfort, Strasbourg, and Basle Railways, and the various lines which are either in the course of construction or in immediate project.

The company having been recognised by the Government of Nassau as Société Anonyme (Anonymous Society), the responsibility of the shareholders, so far as respects all the liabilities incurred in the Duchy, is limited to the amount of their respective shares.

A deposit of £2 fer share is payable upon allotment.

The first instalment of £3 per share is payable within two months after the allotment, and no future instalment is to exceed £5 per share. The period at which the remaining instalments are to become payable will be determined by the beard of directors; but an interval of two months will elapse between each payment.

A limited number of shares only remain to be allotted, for which application, according to the ameased form, must be addrassed to the directors, at the offices of the company, No. 16, 01d Jewry-chambers; where prospectause and forms of application for shares may be had.—London, April 17th.

FORM OF APPLICATION.

FORM OF APPLICATION.

To the Directors of the Nister-Date Iros Company.

Gentlemen,—I request you will insert my name as a subscriber for shares, of £25 each, upon the conditions of the prospectus, dated 17th day of April, 1846; and I hereby undertake to accept the same, or any less number of shares which you may allot to me, to pay the deposit, and sign the required deed when I shall be called upon to do so.

Dated this day of 1845.